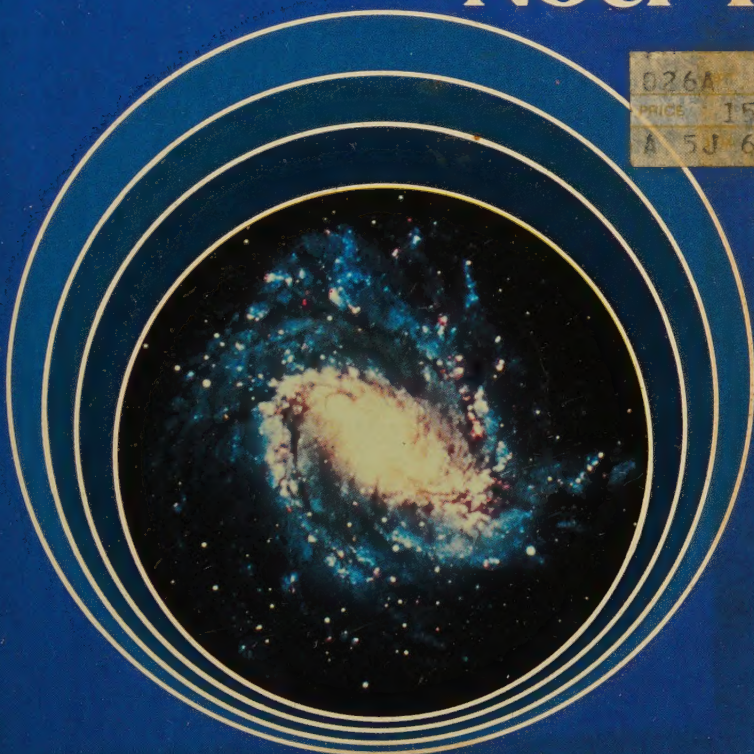


Llewellyn's Practical Astrology Series

# ASTROLOGY 1-2-3

Noel Tyl

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## About the Author

Noel Tyl is one of the best known, most respected astrologers in the world today. His 16 books have been hailed as the most lucid astrological textbooks of the present generation, updating astrological teachings to the psychological sensitivities of the twentieth century. He has been a successful lecturer throughout the United States and has appeared on some 150 radio and television shows, including the TODAY Show and TOMORROW Show nationally.

Mr. Tyl has a degree in Social Relations (Psychology, Sociology, Anthropology) from Harvard; has been an opera singer throughout seven countries for 17 years (a specialist in Wagner); and is also head of his own Public Relations and Advertising firm in Washington, D.C.

At the first World Congress of Astrology held in Zurich, Switzerland in 1980, Mr. Tyl was the American chosen as keynote speaker. He repeated as keynote speaker for the second World Congress in Luzern in April 1983.

For five years, Mr. Tyl was editor of the most prestigious serious journal in the astrological world, *Astrology Now* magazine. His latest book, *Holistic Astrology*, has been translated into German and Italian.

The spectacular success of *The Principles and Practice of Astrology*, the twelve-volume series that has sold well over a quarter of a million copies throughout much of the world, and the thousands of letters received from readers all attest to the fact that Noel Tyl's explanation of astrology works. He brings the heavens down to earth in a way that is vivid and immediately meaningful.

With drama, excitement, and sensitivity rarely found in texts in any field, Noel Tyl takes the serious reader ahead to a lifetime of enriched knowledge and experience.

## To Write to the Author

We cannot guarantee that every letter written to the author can be answered, but all will be forwarded to him. Both the author and the publisher appreciate hearing from readers, learning of your enjoyment and benefit from this book. Llewellyn also publishes a regularly issued tabloid newspaper of news and reviews of practical esoteric studies, and some readers' questions and comments to the author may be answered through this newspaper's columns if permission to do so is included in the original letter. The author sometimes participates in seminars and workshops, and dates and places are announced in the *Llewellyn New Times* newspaper. To write to the author, or to ask a question, or to secure a free copy of this newspaper, write to:

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Originally published in twelve volumes, Tyl's work has won accolades from readers and reviewers alike for its enjoyable style, rich insights and comprehensive coverage. Material is arranged for the steady acquisition of a thorough astrological education, making this a favorite among teachers and students. Yet, there is much for every level of expertise in each separate volume. The series is designed to stand as a set, or as individual units covering specific areas of interest.

The first three volumes are now reprinted as a single, comprehensive introduction to the subject, entitled *Astrology 1-2-3*. Volumes IV, V and VI, respectively entitled *Planets and Houses in Analysis*, *Astrology and Personality*, and *The Expanded Present*, provide a sound introduction into all aspects of horoscope interpretation and synthesis. The fine points of the subject are covered in the following volumes, *Integrated Transits* (VII), *Analysis and Prediction* (VIII), and *Special Horoscope Dimensions* (IX). Volume X, *Astrological Counsel*, is noteworthy as the first book ever published on the subject of counseling techniques and problems in the field of astrology. The final volumes, *Astrology: Astral, Mundane, Occult* (XI) and *Times to Come* (XII), bring us to the frontiers of the subject and suggest new areas of approach. Volume XII contains an index to the entire series.

## **Other Books by the Author**

**The Principles and Practice of Astrology (originally published in twelve volumes:)**

**Horoscope Construction**

**The Houses: Their Signs and Planets**

**The Planets: Their Signs and Aspects**

**Planets and Houses in Analysis**

**Astrology and Personality**

**The Expanded Present**

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**The Horoscope as Identity**

**The Missing Moon**

**Holistic Astrology: The Analysis of Inner and Outer  
Environments**

**Llewellyn's Practical Astrology Series**

**ASTROLOGY 1 – 2 – 3**

*By*  
**Noel Tyl**

**An expansion of  
Volumes I, II and III of  
*The Principles and Practice  
of Astrology***

**1984**

**Llewellyn Publications  
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## Foreword

Any author, trying his best to be responsible and sensitive, must identify with his readers.

What teaching method is best? Why is it best? What has worked quickly and rewardingly in the past? What endures over time as helpful?—These are the questions to be faced by the author, not only in planning a work but, as well, upon a new edition. These are also the questions facing the reader, the student, seeking the best path into a new language, a new realm of perception.

Now, ten years after the introduction of the twelve volume series, *The Principles and Practice of Astrology*, after several hundred thousand copies have been sold throughout the world, this author takes stock, now able better than even before to identify with the reader and confirm what is known to have been a “best” way of learning for many.

I remember the first astrological textbook I read to begin *my* learning. It was a jewel of intent and style, but as a technical orientation, it was loose overall, laborious in certain specifics, and generally filled with oversight. Though

intrigued, I stumbled; I was bulldozed into complexity without understanding; into codified responses without explanation. I resisted being put into a mold; I put my studies aside, and waited for a better day.

A year later, that “day” came: I realized I *had* to know about astrology. It was a compulsion. But I had to know about it *through my lens*, through *my* experience of life, through *my* studies of other fields; *not* through some stereotypical dogma that would anchor me in times fifty or a hundred years ago, that would groom me to be behind the times.

At that time, there were few up-to-date astrological texts on the market. The most popular books were those written in England at the turn of the century. I rebelled against learning astrology in terms of fate, pain, loss, fear. I was drawn to learning astrology in humanistic terms, to understand the process of individuation within a different life time and within a different society.

So when the day came, I began to write new texts, fresh texts, that reached into the base of formalized technical rules refined within astrology to support a new, psychologically sensitive embrace of individuality in modern times. I learned my astrology by learning to teach it as responsibly and sensitively as I could.

*Ten years later*—Now, there are many fine texts on the market. Astrology *has* caught up with the times, thanks largely to a prodigious American effort. Astrology has never been as keen, alert, and “professional” in all of history as it is now.

Upon the revision and expansion plans for this series, I worried about the test of time, about the position of these texts among all the others. The changes made have simply been adaptations to new measurement Tables, the tools of the trade. And this work has been very simple, since, for ten years now, I have reaped reactions from readers. I am blessed and grateful for endorsement of these texts far beyond the norm.

It appears that these texts have indeed updated astrological study to a sensitive psychodynamic idiom. It appears that potentially complex material has been presented with clear, enduring understanding; that responses have been built into students with respect to *their* thinking processes more than to mine. In other words, my texts have explained the way to make you think further for yourself. And, in my opinion, that's what the *art* of astrology is all about.

Mission accomplished.

*Technology*—In the last five years or so, computer technology has touched all our lives. Astrologers are extraordinarily assisted by personal computers and the superb software innovated for our use. Computations no longer get in the way through fatigue, error, or boredom. *But this is a danger as well as a blessing.*

To press a few buttons and have a beautiful, complete chart drawing appear on the monitor or come out of the printer can be a life saver for the busy professional. But for the student, just beginning, it is a serious impediment to learning; it's a jet plane for someone who doesn't know how to fly. So, for this revision and expansion edition, I have

ignored computer programs, leaving them and your choice from among them to other experts and to you *later*, after you get off the ground.

There's an apt German saying that translates, "When the donkey has it too good, he dances on ice." Students of astrology simply must learn the *reason* behind measurements, and how measurements capture time and reflect change. Then, the artistic dance may begin safely.

That learning must be in your brain, in your body, in your blood. Recall trying to remember a telephone number or a joke or, indeed, a flow of logic: if you write it down, you put it together with your being, you can see relationships within the number, the development of the humor, the steps of deduction. If you don't, you rarely have correct recall, correct delivery, sound comprehension.

I beg you to be patient. Follow the texts with care. In a few days, you will be able to say, "Yes. I can do it." And then, a whole new world opens for you. I promise.

Ten years ago, most *ephemerides* (tables of planetary positions) were standardized at noontime measurements. Now, most are standardized at midnight. —But I have not changed the teaching method based upon noon: it requires a bit more instruction, but you will learn more. You will understand time and the simple arithmetic and the *process* of calculation best through the extra bit of thought. The adaptation to midnight, if that becomes your choice later is extraordinarily simple.

I have kept away from mathematics as much as possible. The computations of the Sidereal Time of birth (you'll learn

this soon) will take you only about 20 to 30 seconds after you learn the reasoning behind the process! There simply is nothing to fear when you understand each step of the way. Time has tested these texts, and it is so.

*Interpretation*—You have to peel an orange before you get to the fruit. In the process, you can't help but admire the construction of the fruit itself, the lines, the symmetry, the natural protection of a miracle. So it is with astrology: the measurements reveal a mystery, a challenge, a balance that gradually translates to human behavior. Peeling back those measurement knowingly gradually builds creative *anticipation*, the hallmark of a professional astrologer.

There's a quote attributed to Yogi Bera that is also apt for this forward and orientation: "If you look around, you see a lot!" The interpretive guidelines introduced slowly throughout these first three books within the twelve of the entire series are just that: *guidelines* for your thinking, for how you see the world.

The measurements of astrology are abbreviations of potential meaning; they are guidelines to seeing what *might* be. Astrology has been looking around a great deal throughout the centuries, and each era of study has produced abbreviated observations and interpretive guidelines conditioned by the times and life in each era.

These texts offer guidelines that touch the individualistic dimensions of humanism, blooming in a complex, "accelerated" society. Yes, traditional "classic" ideas and specifics of interpretation are introduced, but, beginning with Book III, thought-provoking images are offered to be tested against

individual realities through creative dialogue between astrologer and client.

So, I welcome you to a beginning; a beginning that has been tested by time and by people. I welcome you to a beginning for you to test—responsibly and sensitively within your time ahead and within your world—just why you are who you are.

Thank you for letting me help with such an adventure.

*Noel Tyl*

# **Book I**

## **Horoscope Construction**

to the spirit of inquiry,  
knowledge of Self,  
and service to man





## Introduction

Man asks questions. His Religion and his many Sciences give many of the answers. He conceptualizes, gives form to ideas, dwells and evolves within his own constructs. To externalize, man draws pictures in many ways: he tells stories on cave walls or on modern murals; he designs abodes for body and spirit; he constructs tools to implement his desires; he creates art to give form to imagination; he reproduces his Self every way he can. He creates and he multiplies.

Even today among certain peoples, taking a photograph is a “dangerous” operation: the essential Self of the subject is threatened through capture within external form. Looking into a mirror is a kind of magic meeting. The showing, the seeing, the communication of the Self . . . the acknowledgment of identity . . . is as primal a function in man as the function of a flower is to bloom and be noticed under the sun. — Among all people, seeing and knowing the Self (the identity) better is a sensitive, compelling, and rewarding quest.

Astrology is portraiture.



# I

## The Horoscope Premise

When we look at a photograph or a painted portrait, we see elements of the whole in unique organization. The eye, the camera can perceive the organization exactly as it is in life – realistically; or, the emotions and sensitivity of the perceiver can rearrange the elements to accentuate some and lose others, to say something “extra” that we call abstract, expressionistic, impressionistic. The elements of the whole are unique and, in their organization and recognition within the world, they change focus, accentuation, and registration.

The horoscope is a portrait of an individual, an organization of his unique elements of composition. When we first see a portrait, we register like or dislike, acceptance or rejection, comfort or discomfort – so many polarities of reaction. So it is in inter-personal relations: we see a person’s value in a particular situation, as spouse, worker, parent, friend, servant, leader, etc. Some who are more sensitive see the other’s “portrait” swiftly and uncannily accurately.

Astrology maintains that the positions of the sun,

moon, and planets in relation to the time and place of an individual's birth comprise the elements of that individual's unique organization of being. The horoscope (the view, "scope" of the heavens at a specific "hour") is a picture of these individual, unique elements and organization.

Astrology is not a new idea. As far back as we can go in recorded history we see references in culture, architecture, religion, and writing to man's awareness of the heavens. All things that grow and live appear to have cycles of change linked to changes of the Earth's position in its path around the sun and in its rotation on its axis. The ancients understandably viewed this link between man and his world below and the gods and their world above religiously. With study through observation and record keeping, man learned that phenomena such as floods, drought, crop fluctuation, and natural cataclysm on Earth coincided with movements "among the gods" in the sky. Further observation revealed that men themselves underwent changes similarly related: birth, growth, rise, fall; more leaders were born under certain configurations than under others; men together under certain configurations made wars, made peace, developed commerce. The drama existed; it was there for man to record, understand, respect, and utilize.

Observation continues still. The birth of the scientific method refined these observations and measurements. The record of nuance accumulated, and man finds himself today heir to enormous ancient lore and modern principles

of analysis. More than ever before, man can see the drama and participate within it with knowledgeable awareness.

Eternal questions baffle us: what *is* the relationship between man on Earth and the “gods” in the heavens? If the relationship *is* so definite, what is it that makes it work? — There have been many attempts to answer this: the drama of the gods in ancient times was a religious answer, especially since gods easily became men and participated in the drama on Earth, among men; there are several theories about “divine rays” emanating from the planets to man as the receptor; there are theories of radio-waves, with men as antennae. No one has explained the “what is.” But the “what seems to be” was enough for Newton (an astrologer), who marvelled at the Universe and its organization as evidence of a Divine Creator.

The psychologist C. G. Jung submitted a theory of synchronicity that is the latest attempt in practical explanation: there is a *correspondence* between above and below within time — a parallel within the Grand Order. This explanation takes away some of the cause-and-effect discomfort man feels when he studies the question of Fate and Free-Will. That we are “attuned” with the Cosmic Whole makes life more dignified than if we feel at mercy of the cycles of nature. Man needs to feel that he himself can do something about his growth. This discussion will be developed throughout this series of volumes, and then you as an emergent astrologer will be able to find your own personal feeling about the “what is it” and how you personally will discuss and share it with others. And that

will be *your* best way! The study of Astrology embraces a vastly rich spectrum of man's intrinsic needs, beliefs, personal experience, individual and collective development.

In this first volume, we are beginning with the simple arithmetic of constructing the horoscope drawing, assembling the "cast of characters" of the drama and putting them into their places. Then we will introduce the study of how they work together — the unique organization within the whole — to show the dramatic portrait that is individuality; that is the horoscope.

## 2

# Calculating the Time of Birth

*“calculation” – Latin: “the handling of pebbles”*

The time of birth is all-important. The life portrait is formed at the moment of birth, the first in-taking (inspiration) of breath. Most birth certificates record the moment of birth. All birth records in hospitals and municipal libraries do record the time. Parents often write the birth-time of the child in family albums, the *Bible*. Children become curious about the time of their birth and usually remember the time, when they learn it from their parents. Sisters and brothers may remember the younger's birth. There are ways to find out the birth time quite accurately – and the hunt can become very interesting fun. But when the birth time is not known at all and can't be discovered, Astrology has ways to “rectify” the birth time to determine it – by working backwards from the present through developments in the life. These techniques of rectification will be covered in Volume VII.

As you read this, ask yourself what time it is where you are and what time it is in London. If it's spring or summer where you are, you might be on Daylight Saving Time – or maybe you're not on Daylight Saving and

London is! You see, then, that “what time is it?” easily can become a complicated question.

As man populated the globe and linked his cities with communications and transportation, it became very important to know what time it was where *he* was and at the place where he was going. Urban centralization made standardization of work schedules necessary. The rural sunrise-to-sunset workday didn't fit in the city when people had to travel to and from work. Industrialization brought shift-work concepts. Wartime brought an emphasis on work output and the main work-producing daylight hours. As society became complicated, so did its record of time.

The heavens exist in their *own* time, *sidereal* or star time. *Since Astrology times movements in the heavens, we must convert man's Earth time to the heavens' sidereal time.*

The thorough explanation of this conversion can be bewildering indeed in the early stages of study. When I began, my teacher told me to do as he did, not to ask questions. This was a very wise, farseeing rule. In this spirit, our explanation will be bare so that your confidence is not overcome by advanced details. Further explanations are in chapter 6.

Constructing the horoscope *is* easy, and our explanation here is designed to make it easy for you, to help it become a routine and then an instinct. In the studies that follow in this series, simple time considerations become dynamic indeed in projection into the future.

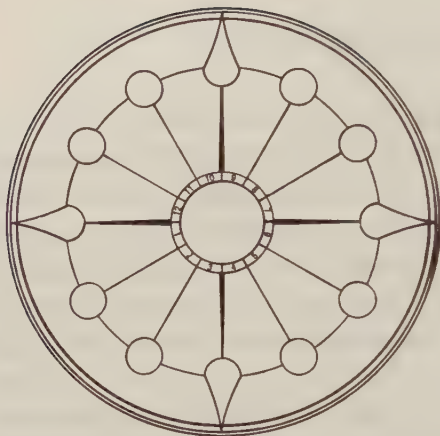


**The Materials.** To construct a horoscope, you need lined paper and a pencil; a pad of horoscope blanks; an *Ephemeris* for the year of the birth with which you are working. The ephemeris (plural ephemerides) is a book of planet positions every day for a whole year; *Tables of Houses* that record the divisions of the horoscope; and the *Tables of Diurnal Planetary Motion* that do much of the arithmetic for you.

Once you have the *Tables of Houses* and *Tables of Diurnal Planetary Motion* you can do any horoscope for any time at any location. You only need the ephemeris for the year of the birth.

We recommend *The American Ephemeris for the Twentieth Century* (Noon Edition, paperback), and *The American Book of Tables*, both by Neil Michelsen. The former lists all of the planetary positions for the entire twentieth century, while the latter contains both a *Table of Houses* and the *Tables of Diurnal Planetary Motion*. For the Horoscope blanks, we recommend the large-circle (6") form used in this book, *without* markings and drawings of degrees and Signs around the circumference. All these materials are available at any Astrology or Occult bookstore, or from Llewellyn Publications, P.O. Box 64383-A123, St. Paul, Minnesota, 55164-0383, U.S.A.

At first reading, the new word "ephemeris" and the phrase "diurnal planetary motion" sound technical. Even working with planets can give a first feeling of insecurity—but it just is not difficult to construct a horoscope, and the tables are essential to make the arithmetic elementary.



The appendix contains excerpts from all tables, the ephemeris needed for all horoscopes discussed in this volume, and practice horoscope blanks.

**What time is it?** The conversion of Earth time to sidereal time comprises four simple addition and/or subtraction operations that, with practice, will take you about 20 seconds to do.

Look into your ephemeris for the date of birth. Each full-spread of pages covers one month. For our first example we are using the birthdate: *March 23, 1950 at 6:30 PM, EST in New York City.* find the “March 1950” page. This page of the *American Ephemeris* for March 1950 is reproduced on pages 12 and 13.

In the *American Ephemeris* the sidereal time is found under the heading “Sid. Time” at the left of the page. You will undoubtedly want to do horoscopes of your family and friends. We’ve chosen 1950 as a mean date to use in the *American Ephemeris*.

The date (DAY) of the month is numbered vertically top to bottom. We locate "23". Right next to "23" we see in the Sid. Time or sidereal time column the numbers . . .

H M S

0 01 37 The "H" is hours, the "M" is minutes, and the "S" is seconds. This is the sidereal time for March 23, 1950: zero hours, one minute, and thirty-seven seconds.

Sidereal time flows through its own twenty-four hours in approximately one of our years. Notice that one day earlier in 1950, on March 22, the sidereal time was 23-57-41, almost 24 o'clock, so to speak. On our example birthday, it is a new sidereal year, just after the vernal equinox, the first day of spring, the beginning of the astrological year.

In order to standardize time records, man has chosen Greenwich, England (a suburb of London) as the reference point. The ephemeris uses noontime at Greenwich as standard. The planetary positions and the sidereal times in the ephemeris *are for noon on each particular day in Greenwich.*<sup>1</sup>

The first line on our work sheet should read

H M S

0 01 37 Sid. Time, March 23, 1950

The second line is extremely simple as well: the birth

1. Some ephemerides are calculated for midnight GMT (Greenwich Mean Time). Check carefully if you are using editions other than those recommended.

# MARCH 1950

| Day   | Sid.Time | ☉        | 0 hr ☾   | ☽        | True ☿ | ♀       |
|-------|----------|----------|----------|----------|--------|---------|
| 1 W   | 22 34 53 | 10×20 28 | 25☉15 43 | 1♃57 49  | 7♃42.3 | 19≈55.7 |
| 2 Th  | 22 38 50 | 11 20 39 | 8♃46 5   | 15 40 20 | 7♃38.1 | 21 26.8 |
| 3 F   | 22 42 46 | 12 20 47 | 22 40 17 | 29 45 31 | 7 34.4 | 22 59.1 |
| 4 Sa  | 22 46 43 | 13 20 54 | 6♃55 28  | 14♃9 28  | 7 31.7 | 24 32.4 |
| 5 Su  | 22 50 39 | 14 20 59 | 21 26 46 | 28 46 30 | 7 30.3 | 26 6.9  |
| 6 M   | 22 54 36 | 15 21 2  | 6♃7 51   | 13♃29 56 | 7♃30.1 | 27 42.4 |
| 7 Tu  | 22 58 32 | 16 21 3  | 20 51 53 | 28 12 56 | 7 30.9 | 29 19.1 |
| 8 W   | 23 2 29  | 17 21 3  | 5♃32 21  | 12♃49 30 | 7 32.2 | 0×56.9  |
| 9 Th  | 23 6 25  | 18 21 1  | 20 3 50  | 27 14 56 | 7 33.6 | 2 35.8  |
| 10 F  | 23 10 22 | 19 20 58 | 4♃22 27  | 11♃26 8  | 7 34.5 | 4 15.8  |
| 11 Sa | 23 14 19 | 20 20 53 | 18 25 49 | 25 21 26 | 7♃34.7 | 5 57.0  |
| 12 Su | 23 18 15 | 21 20 46 | 2♃12 56  | 9♃0 20   | 7 34.0 | 7 39.3  |
| 13 M  | 23 22 12 | 22 20 38 | 15 43 43 | 22 23 9  | 7 32.6 | 9 22.8  |
| 14 Tu | 23 26 8  | 23 20 28 | 28 58 45 | 5≈30 36  | 7 30.6 | 11 7.5  |
| 15 W  | 23 30 5  | 24 20 16 | 11≈58 51 | 18 23 37 | 7 28.6 | 12 53.4 |
| 16 Th | 23 34 1  | 25 20 2  | 24 45 1  | 1×3 11   | 7 26.7 | 14 40.5 |
| 17 F  | 23 37 58 | 26 19 47 | 7×18 16  | 13 30 23 | 7 25.3 | 16 28.8 |
| 18 Sa | 23 41 54 | 27 19 29 | 19 39 42 | 25 46 23 | 7 24.4 | 18 18.3 |
| 19 Su | 23 45 51 | 28 19 10 | 1♃50 35  | 7♃52 32  | 7♃24.2 | 20 9.0  |
| 20 M  | 23 49 48 | 29 18 48 | 13 52 26 | 19 50 33 | 7 24.4 | 22 1.0  |
| 21 Tu | 23 53 44 | 0♃18 24  | 25 47 10 | 1♃42 35  | 7 25.1 | 23 54.2 |
| 22 W  | 23 57 41 | 1 17 59  | 7♃37 10  | 13 31 17 | 7 25.8 | 25 48.6 |
| 23 Th | 0 1 37   | 2 17 31  | 19 25 22 | 25 19 51 | 7 26.6 | 27 44.3 |
| 24 F  | 0 5 34   | 3 17 0   | 1♃15 12  | 7♃11 58  | 7 27.2 | 29 41.1 |
| 25 Sa | 0 9 30   | 4 16 28  | 13 10 38 | 19 11 46 | 7 27.5 | 1♃39.0  |
| 26 Su | 0 13 27  | 5 15 53  | 25 15 57 | 1♃23 43  | 7♃27.7 | 3 38.1  |
| 27 M  | 0 17 23  | 6 15 16  | 7♃35 38  | 13 52 15 | 7 27.7 | 5 38.2  |
| 28 Tu | 0 21 20  | 7 14 37  | 20 14 4  | 26 41 33 | 7 27.6 | 7 39.2  |
| 29 W  | 0 25 17  | 8 13 55  | 3♃15 7   | 9♃55 4   | 7♃27.6 | 9 41.1  |
| 30 Th | 0 29 13  | 9 13 11  | 16 41 37 | 23 34 53 | 7 27.7 | 11 43.7 |
| 31 F  | 0 33 10  | 10 12 25 | 0♃34 50  | 7♃41 14  | 7 27.8 | 13 46.8 |

## LONGITUDE

| ♀        | ♂         | ♄         | ♃         | ♁        | ♅         | ♁         |
|----------|-----------|-----------|-----------|----------|-----------|-----------|
| 4 ≈ 32.9 | 9 ♄ 7.7   | 20 ≈ 29.6 | 16 ♄ 30.3 | 0 ♁ 58.1 | 16 ♄ 53.7 | 16 ♁ 27.9 |
| 4 53.0   | 8R 54.1   | 20 43.5   | 16R 25.5  | 0R 57.7  | 16R 52.5  | 16R 26.7  |
| 5 14.9   | 8 39.8    | 20 57.4   | 16 20.8   | 0 57.3   | 16 51.2   | 16 25.4   |
| 5 38.6   | 8 24.7    | 21 11.2   | 16 16.0   | 0 57.0   | 16 49.9   | 16 24.1   |
| 6 4.1    | 8 9.0     | 21 25.0   | 16 11.2   | 0 56.7   | 16 48.6   | 16 22.9   |
| 6 31.3   | 7 52.5    | 21 38.7   | 16 6.4    | 0 56.5   | 16 47.3   | 16 21.6   |
| 7 0.0    | 7 35.5    | 21 52.4   | 16 1.6    | 0 56.4   | 16 45.9   | 16 20.4   |
| 7 30.4   | 7 17.8    | 22 6.1    | 15 56.8   | 0 56.3   | 16 44.5   | 16 19.2   |
| 8 2.2    | 6 59.4    | 22 19.7   | 15 52.1   | 0D 56.2  | 16 43.1   | 16 18.0   |
| 8 35.5   | 6 40.5    | 22 33.3   | 15 47.3   | 0 56.3   | 16 41.7   | 16 16.8   |
| 9 10.2   | 6 21.0    | 22 46.8   | 15 42.5   | 0 56.3   | 16 40.3   | 16 15.7   |
| 9 46.2   | 6 1.0     | 23 0.3    | 15 37.8   | 0 56.4   | 16 38.9   | 16 14.5   |
| 10 23.5  | 5 40.5    | 23 13.7   | 15 33.0   | 0 56.6   | 16 37.4   | 16 13.4   |
| 11 2.0   | 5 19.5    | 23 27.1   | 15 28.3   | 0 56.8   | 16 36.0   | 16 12.3   |
| 11 41.6  | 4 58.0    | 23 40.5   | 15 23.6   | 0 57.1   | 16 34.5   | 16 11.2   |
| 12 22.4  | 4 36.2    | 23 53.8   | 15 18.9   | 0 57.4   | 16 33.0   | 16 10.2   |
| 13 4.3   | 4 14.0    | 24 7.0    | 15 14.2   | 0 57.8   | 16 31.5   | 16 9.1    |
| 13 47.2  | 3 51.5    | 24 20.2   | 15 9.6    | 0 58.3   | 16 29.9   | 16 8.1    |
| 14 31.1  | 3 28.8    | 24 33.3   | 15 4.9    | 0 58.8   | 16 28.4   | 16 7.1    |
| 15 15.9  | 3 5.8     | 24 46.4   | 15 0.4    | 0 59.3   | 16 26.8   | 16 6.1    |
| 16 1.6   | 2 42.6    | 24 59.4   | 14 55.8   | 0 59.9   | 16 25.3   | 16 5.1    |
| 16 48.2  | 2 19.3    | 25 12.3   | 14 51.3   | 1 0.6    | 16 23.7   | 16 4.1    |
| 17 35.7  | 1 55.9    | 25 25.2   | 14 46.8   | 1 1.3    | 16 22.1   | 16 3.2    |
| 18 24.0  | 1 32.4    | 25 38.1   | 14 42.4   | 1 2.0    | 16 20.5   | 16 2.3    |
| 19 13.0  | 1 9.0     | 25 50.8   | 14 38.0   | 1 2.8    | 16 18.9   | 16 1.4    |
| 20 2.8   | 0 45.8    | 26 3.5    | 14 33.7   | 1 3.7    | 16 17.3   | 16 0.6    |
| 20 53.3  | 0 22.3    | 26 16.1   | 14 29.4   | 1 4.6    | 16 15.7   | 15 59.7   |
| 21 44.4  | 29 ♄ 59.1 | 26 28.7   | 14 25.2   | 1 5.6    | 16 14.1   | 15 58.9   |
| 22 36.3  | 29 36.1   | 26 41.2   | 14 21.0   | 1 6.6    | 16 12.5   | 15 58.1   |
| 23 28.8  | 29 13.4   | 26 53.6   | 14 16.9   | 1 7.7    | 16 10.8   | 15 57.3   |
| 24 21.9  | 28 50.9   | 27 5.9    | 14 12.8   | 1 8.8    | 16 9.2    | 15 56.6   |

occurred at 6:30 PM, six hours and thirty minutes in the evening, *after noon*. So we must *add* six hours and thirty minutes to the noon sidereal time. If the birth time were *before noon*, we would *subtract* it (our next example will show this).

| H  | M  | S  |                                      |
|----|----|----|--------------------------------------|
| 0  | 01 | 37 | Sid. Time, March 23, 1950            |
| +6 | 30 | 00 | Hours <i>after noon</i> : <i>add</i> |

The third line is a correction of the birth time that has elapsed from the previous noon. This correction is *10 seconds per hour*. Since the birth was *after noon* and we *added* the elapsed time to the noon sidereal time (line two), we *add the correction as well*. If the birth time were *before noon*, we would *subtract* both corrections (our next example will show this).

| H  | M  | S   |  |
|----|----|-----|--|
| 0  | 01 | 37  | Sid. Time, March 23, 1950                |
| +6 | 30 | 00  | Hours <i>after noon</i> : <i>add</i>     |
|    |    | +65 | Elapsed time correction;<br>10s per hour |

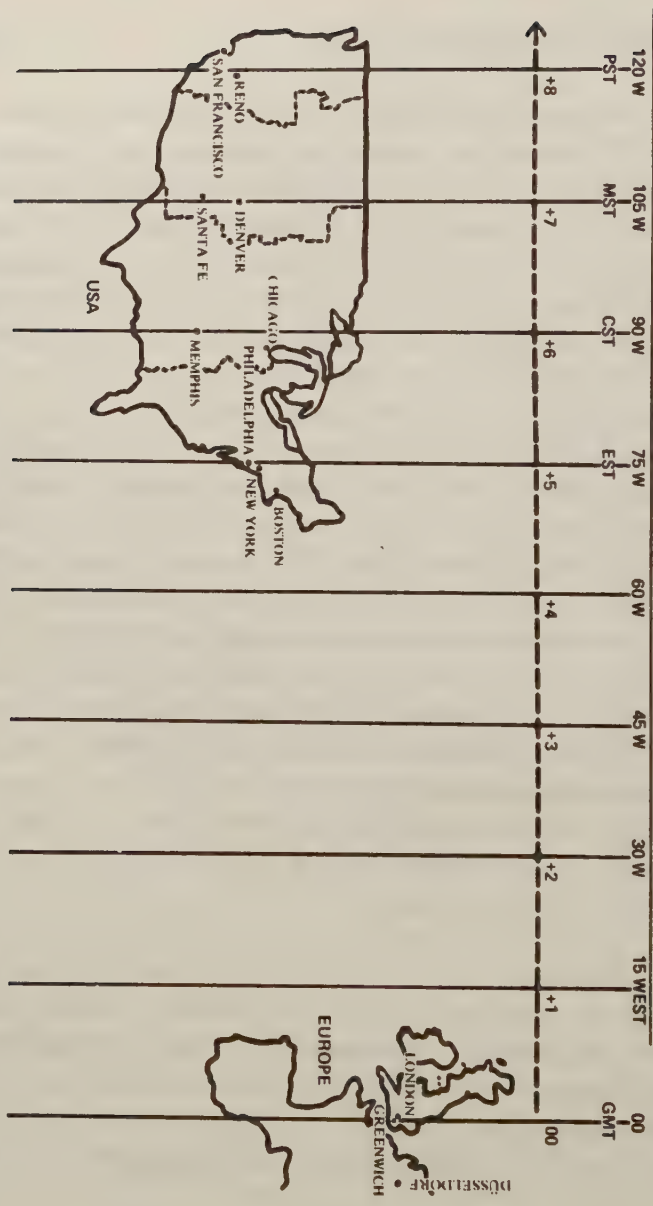
The correction is 10 seconds times  $6\frac{1}{2}$  hours, giving 65 seconds. Be sure you put the correction under the "S" (seconds) column.

The fourth and fifth lines involve *longitude*. We must take into consideration where the birth occurred in relation to Greenwich, the location to which our ephemeris information is standardized.

A short explanation is necessary: the sun appears to travel  $1^\circ$  on its arc around the Earth (called the ecliptic) every four minutes of clock time, completing the  $360^\circ$  circle in 24 hours (1,440 minutes) of man's time. In his work to standardize time throughout world geography references, man uses this apparent sun movement. Maps show it clearly: vertical lines are drawn, from the north to the south, every  $15^\circ$  around the Earth. From one *longitude* line to another measures  $15^\circ$  of the Grand Circle around the Earth or the distance covered by the sun *in one hour of man's time*. This is how the Earth is divided into time zones. In the United States, these time zones are named Eastern Standard at  $75^\circ$ , Central Standard at  $90^\circ$ , Mountain Standard at  $105^\circ$ , and Pacific Standard at  $120^\circ$ .

We must look at the alphabetized list of cities at the end of the *American Book of Tables* or at a map in a good atlas and note the longitude of the birth city. New York City is at  $74^\circ$  west of Greenwich, as the sun "travels." Note on a good atlas the longitude line is clearly labeled " $75^\circ$  W" and runs north and south just to the left (west) of New York City. Your eye tells you that New York City is at  $74^\circ$  west; detailed maps will show you *each* degree line.

We know that the longitude lines make up the time zones around the world, i.e., a one-hour change occurs every 15 degrees, or *time meridian*, west. Astrology works with these principal time meridian lines. In effect, for our calculations, we want to "bring the sun to this  $75^\circ$  meridian," the center of the Eastern Standard Time Zone





in which our birth example occurred.

On our fourth line, we make a correction for this longitude, for the time zone. *The correction is plus 10 seconds for every time zone west of Greenwich.* The correction is *minus* 10 seconds for *eastern* longitude, and we will see an example of this in chapter 6.

The 75 meridian covers the Eastern Time Zone in which we find New York City. The 75 meridian is the *fifth* time zone west of Greenwich ( $5 \times 15^\circ = 75^\circ$ ). So our correction is  $5 \times 10$  seconds, or 50 seconds, *plus* – because we are in western longitude. Our work sheet now looks like this:

| H  | M  | S   |  |
|----|----|-----|--|
| 0  | 01 | 37  | Sid. Time, March 23, 1950                      |
| +6 | 30 | 00  | Hours <i>after</i> noon: <i>add</i>            |
|    |    | +65 | Elapsed time correction: 10s<br>per hour       |
|    |    | +50 | Longitude correction; 10s per<br>zone; west: + |

Be sure to put the correction in seconds under the “seconds” column.

The last line is the line that seems hardest for students. (A complete explanation is given in chapter 6.) Since New York City is not exactly upon the 75 meridian, we must make a correction to “bring the sun there.” We know that the sun must travel  $1^\circ$  more to get to the 75 meridian from New York City at  $74^\circ$ . The sun appears to go always from east to west. In our example, the sun must continue one more degree to arrive at the 75 meridian

upon which we are standardizing our time corrections. The correction for the sun is four minutes per degree, *plus* because we are “moving” the sun farther to the west. There is only one degree remaining; the correction is four minutes x one degree = four minutes.

| H              | M   | S   |  |
|----------------|-----|-----|--|
| 0              | 01  | 37  | Sid. Time, March 23, 1950                      |
| +6             | 30  | 00  | Hours <i>after</i> noon: <i>add</i>            |
|                |     | +65 | Elapsed time correction: 10s<br>per hour       |
|                |     | +50 | Longitude correction; 10s per<br>zone; west: + |
|                | +04 |     | Sun correction: 4m per degree;<br>westward: +  |
| 6    35    152 |     |     | Corrected Sidereal Time                        |

Be sure to put the sun correction in minutes under the “minutes” column.

When we make the addition we get a corrected sidereal time of 6 H - 35 M - 152 S. —We know there are 60 seconds in one minute and 60 minutes in one hour. Our 152 seconds is really 2 minutes and 32 seconds. Our final sidereal time is 6 H - 37 M - 32 S.

This operation is extremely simple. It is only the newness of it that will give you trouble at first. After a short while, it will only take about 20 seconds — and a great deal is already accomplished.

*Second Example.* Let us take another birth, an AM

birth, a birth before noon: *June 5, 1950; 9:00 AM; Boston, Mass., 71° W 04' longitude west (round off to 71°).*

We find the full-spread pages (see 20, 21) in the ephemeris, "June, 1950"; locate June 5 in the "D" (date) column, and note the "S.T." (Sidereal Time) on our work sheet:

| H | M  | S  |                   |
|---|----|----|-------------------|
| 4 | 53 | 22 | S.T. June 5, 1950 |

It was springtime in Boston in June 1950. The 9:00 AM birth time was *daylight saving time*. *Astrologers work with standard time only, so the time must be corrected from daylight saving time to standard time.* Daylight saving time usually starts on the last Sunday in April (2:00 AM) and ends on the last Sunday in September (2:00 AM). As late as 1946, only about half of the states observed daylight saving time. Earlier, during the world wars, the United States observed DST throughout the nation from March 31, 1918 to October 27, 1918; March 30, 1919 to October 26, 1919; and February 9, 1942 to September 30, 1945. From 1920 to 1941, DST was not observed throughout the country. After 1946, DST was determined by local ordinance. —To answer all time zone questions, the student should have the book *The American Atlas* by Neil F. Michelson.

When man uses daylight saving time, he puts his clock forward one hour in the spring and puts it back one hour in the fall. It's easy to remember: "spring ahead; fall back." So, on our work sheet, we must list the local time

# LONGITUDE

| Day   | Sid.Time | ☉        | 0 hr ☽   | ☽        | True ♀ | ♃       |
|-------|----------|----------|----------|----------|--------|---------|
| 1 Th  | 4 37 36  | 10♁25 8  | 16♃36 21 | 24♃ 7 38 | 5♁10.7 | 19♃26.1 |
| 2 F   | 4 41 33  | 11 22 36 | 1♃34 50  | 8♃56 55  | 5R 1.2 | 19 50.5 |
| 3 Sa  | 4 45 29  | 12 20 3  | 16 12 58 | 23 22 19 | 4 52.6 | 20 19.2 |
| 4 Su  | 4 49 26  | 13 17 29 | 0♃24 32  | 7♃19 20  | 4 45.8 | 20 52.1 |
| 5 M   | 4 53 22  | 14 14 55 | 14 6 43  | 20 46 47 | 4 41.3 | 21 29.1 |
| 6 Tu  | 4 57 19  | 15 12 19 | 27 19 50 | 3♃46 18  | 4 39.0 | 22 10.1 |
| 7 W   | 5 1 16   | 16 9 43  | 10♃ 6 40 | 16 21 32 | 4D38.4 | 22 55.0 |
| 8 Th  | 5 5 12   | 17 7 7   | 22 31 31 | 28 37 16 | 4 38.6 | 23 43.8 |
| 9 F   | 5 9 9    | 18 4 30  | 4♁39 29  | 10♁38 47 | 4R38.6 | 24 36.3 |
| 10 Sa | 5 13 5   | 19 1 52  | 16 35 49 | 22 31 13 | 4 37.2 | 25 32.5 |
| 11 Su | 5 17 2   | 19 59 14 | 28 25 33 | 4♃19 22  | 4 33.8 | 26 32.3 |
| 12 M  | 5 20 58  | 20 56 35 | 10♃13 9  | 16 7 22  | 4 27.8 | 27 35.5 |
| 13 Tu | 5 24 55  | 21 53 56 | 22 2 22  | 27 58 33 | 4 19.0 | 28 42.3 |
| 14 W  | 5 28 51  | 22 51 16 | 3♁56 10  | 9♁55 29  | 4 7.8  | 29 52.4 |
| 15 Th | 5 32 48  | 23 48 35 | 15 56 41 | 21 59 58 | 3 55.0 | 1♁ 5.8  |
| 16 F  | 5 36 45  | 24 45 54 | 28 5 25  | 4♃13 11  | 3 41.6 | 2 22.6  |
| 17 Sa | 5 40 41  | 25 43 13 | 10♃23 19 | 16 35 54 | 3 28.8 | 3 42.6  |
| 18 Su | 5 44 38  | 26 40 31 | 22 51 2  | 29 8 48  | 3 17.6 | 5 5.8   |
| 19 M  | 5 48 34  | 27 37 48 | 5♃29 17  | 11♃52 38 | 3 8.9  | 6 32.2  |
| 20 Tu | 5 52 31  | 28 35 4  | 18 18 59 | 24 48 31 | 3 3.2  | 8 1.7   |
| 21 W  | 5 56 27  | 29 32 20 | 1♁21 27  | 7♁58 0   | 3 0.3  | 9 34.4  |
| 22 Th | 6 0 24   | 0♃29 35  | 14 38 24 | 21 22 55 | 2D59.4 | 11 10.2 |
| 23 F  | 6 4 20   | 1 26 49  | 28 11 45 | 5♁ 5 6   | 2R59.5 | 12 49.0 |
| 24 Sa | 6 8 17   | 2 24 2   | 12♁ 3 7  | 19 5 52  | 2 59.2 | 14 30.9 |
| 25 Su | 6 12 14  | 3 21 15  | 26 13 18 | 3♁25 16  | 2 57.3 | 16 15.7 |
| 26 M  | 6 16 10  | 4 18 28  | 10♁41 27 | 18 1 24  | 2 53.1 | 18 3.4  |
| 27 Tu | 6 20 7   | 5 15 40  | 25 24 30 | 2♃49 56  | 2 46.1 | 19 54.0 |
| 28 W  | 6 24 3   | 6 12 51  | 10♃16 48 | 17 44 3  | 2 36.8 | 21 47.2 |
| 29 Th | 6 28 0   | 7 10 3   | 25 10 36 | 2♃35 18  | 2 26.0 | 23 43.1 |
| 30 F  | 6 31 56  | 8 7 14   | 9♃57 3   | 17 14 49 | 2 14.9 | 25 41.5 |

## JUNE 1950

| ♀       | ♂       | ♃      | ♄       | ♅      | ♆       | ♇       | ♈ |
|---------|---------|--------|---------|--------|---------|---------|---|
| 29♄53.4 | 26♄34.8 | 6♃25.6 | 12♄50.0 | 3♅40.0 | 14♃44.3 | 16♉2.0  |   |
| 1♃2.1   | 26 52.6 | 6 30.2 | 12 51.8 | 3 43.4 | 14R43.5 | 16 3.0  |   |
| 2 10.8  | 27 10.9 | 6 34.7 | 12 53.7 | 3 46.8 | 14 42.8 | 16 3.9  |   |
| 3 19.7  | 27 29.6 | 6 39.0 | 12 55.7 | 3 50.2 | 14 42.1 | 16 4.9  |   |
| 4 28.7  | 27 48.8 | 6 43.1 | 12 57.8 | 3 53.7 | 14 41.4 | 16 5.9  |   |
| 5 37.7  | 28 8.3  | 6 47.1 | 13 0.1  | 3 57.1 | 14 40.8 | 16 6.9  |   |
| 6 46.8  | 28 28.3 | 6 50.8 | 13 2.4  | 4 0.6  | 14 40.2 | 16 7.9  |   |
| 7 56.0  | 28 48.7 | 6 54.4 | 13 4.7  | 4 4.0  | 14 39.6 | 16 9.0  |   |
| 9 5.3   | 29 9.5  | 6 57.8 | 13 7.2  | 4 7.5  | 14 39.1 | 16 10.1 |   |
| 10 14.6 | 29 30.7 | 7 1.0  | 13 9.8  | 4 11.0 | 14 38.6 | 16 11.2 |   |
| 11 24.0 | 29 52.3 | 7 4.1  | 13 12.5 | 4 14.5 | 14 38.1 | 16 12.3 |   |
| 12 33.5 | 0♂14.3  | 7 6.9  | 13 15.3 | 4 18.1 | 14 37.6 | 16 13.5 |   |
| 13 43.1 | 0 36.6  | 7 9.6  | 13 18.2 | 4 21.6 | 14 37.2 | 16 14.6 |   |
| 14 52.7 | 0 59.3  | 7 12.1 | 13 21.1 | 4 25.1 | 14 36.8 | 16 15.8 |   |
| 16 2.4  | 1 22.4  | 7 14.4 | 13 24.2 | 4 28.7 | 14 36.5 | 16 17.1 |   |
| 17 12.2 | 1 45.9  | 7 16.5 | 13 27.3 | 4 32.3 | 14 36.1 | 16 18.3 |   |
| 18 22.1 | 2 9.7   | 7 18.4 | 13 30.6 | 4 35.8 | 14 35.8 | 16 19.6 |   |
| 19 32.0 | 2 33.8  | 7 20.2 | 13 33.9 | 4 39.4 | 14 35.6 | 16 20.8 |   |
| 20 41.9 | 2 58.2  | 7 21.7 | 13 37.3 | 4 43.0 | 14 35.3 | 16 22.1 |   |
| 21 51.9 | 3 23.0  | 7 23.1 | 13 40.8 | 4 46.6 | 14 35.1 | 16 23.4 |   |
| 23 2.0  | 3 48.2  | 7 24.2 | 13 44.4 | 4 50.2 | 14 35.0 | 16 24.8 |   |
| 24 12.1 | 4 13.6  | 7 25.2 | 13 48.1 | 4 53.8 | 14 34.8 | 16 26.1 |   |
| 25 22.3 | 4 39.3  | 7 25.9 | 13 51.9 | 4 57.4 | 14 34.7 | 16 27.5 |   |
| 26 32.6 | 5 5.4   | 7 26.5 | 13 55.7 | 5 1.0  | 14 34.6 | 16 28.9 |   |
| 27 42.9 | 5 31.7  | 7 26.9 | 13 59.7 | 5 4.6  | 14 34.6 | 16 30.3 |   |
| 28 53.2 | 5 58.3  | 7 27.1 | 14 3.7  | 5 8.2  | 14D34.6 | 16 31.7 |   |
| 0II 3.7 | 6 25.2  | 7R27.1 | 14 7.8  | 5 11.8 | 14 34.6 | 16 33.2 |   |
| 1 14.2  | 6 52.4  | 7 26.9 | 14 12.0 | 5 15.4 | 14 34.6 | 16 34.6 |   |
| 2 24.7  | 7 19.9  | 7 26.5 | 14 16.2 | 5 19.0 | 14 34.7 | 16 36.1 |   |
| 3 35.3  | 7 47.6  | 7 25.9 | 14 20.6 | 5 22.6 | 14 34.9 | 16 37.6 |   |

of birth as follows: "9:00 AM, *DST.*" Then, next to this time, we must note the standard time, by subtracting one hour: "8:00 AM, *EST.*" *We work only with this corrected birth time, the standard time.*

Since the time of birth was *before noon*, we must *subtract* the number of hours between *noon* and the standard birth time: 12 noon minus 8:00 AM equals 4 hours. This four hours is the interval we must subtract from the noon S.T. Then we make our time correction, 10 seconds per hour and also *subtract* it, since the birth was before noon. Our work sheet looks like this:

| H  | M  | S   |  |
|----|----|-----|--|
| 4  | 53 | 22  | S.T. June 5, 1950                          |
| -4 | 00 | 00  | Hours <i>before noon</i> : <i>subtract</i> |
|    |    | -40 | Time correction: 10s per hour              |

We know that Boston is in the Eastern Time Zone at 71° west and that the Eastern Time Zone area works in reference to the 75° meridian. We make the longitude correction: 10 seconds per zone. Five time zones ( $5 \times 15^\circ = 75^\circ$ ) or 50 seconds. Boston is west of Greenwich, therefore we add this correction (as we did for New York, also in the Eastern Standard Time Zone):

| H  | M  | S   |   |
|----|----|-----|---|
| 4  | 53 | 22  | S.T. June 5, 1950                           |
| -4 | 00 | 00  | Hours <i>before noon</i> : <i>subtract</i>  |
|    |    | -40 | Time correction: 10s per hour               |
|    |    | +50 | Longitude correction; 10s per zone: west: + |

For our last line, we know we must “bring the sun to the meridian,” i.e., from Boston at  $71^\circ$  west to the meridian at  $75^\circ$  west. The difference is  $4^\circ$  to the west, as the sun “travels.” Our correction will be plus 4 minutes times the number of degrees to the meridian:  $4 \times 4 = 16$  minutes correction.

| H                                      | M   | S   |   |
|--|-----|-----|---|
| 4                                      | 53  | 22  | S.T. June 5, 1950                           |
| -4                                     | 00  | 00  | Hours <i>before</i> noon: <i>subtract</i>   |
|  |     | -40 | Time correction: 10s per hour               |
|  |     | +50 | Longitude correction; 10s per zone: west: + |
|  | +16 | 00  | Sun correction: 4m per degree; westward: +  |
| <hr style="border: 1px solid black;"/> |     |     |   |
| 00                                     | 69  | 32  |   |
| or 1                                   | 09  | 32  | Corrected Sidereal Time                     |

We see “69M” and know that this is 1H 9M. We add the whole hour to the “00” and get “01H.”

*Third Example.* The birth information is *August 9, 1950 at 03:48 AM in San Francisco, California,  $122^\circ W 25'$  longitude west (round off to  $122^\circ$ ).*

We know that the birth-time is 3:48 AM, *Daylight Saving Time*. We will work with the *Pacific Standard Time of 2:48 AM*, which is 9 hours and 12 minutes *before the noon* of August 9, 1950 ( $12:00$  noon -  $02:48 = 9:12$  interval). Finding the appropriate page in our ephemeris (see 24, 25), noting the S.T., we can begin to work quickly:

## AUGUST 1950

| Day   | Sid.Time | ☉        | 0 hr ☾   | ☽        | True ☿  | ♀       |
|-------|----------|----------|----------|----------|---------|---------|
| 1 Tu  | 8 38 6   | 8♄39 34  | 13♃32 1  | 19♃58 6  | 29♃25.7 | 29♄0.9  |
| 2 W   | 8 42 3   | 9 36 57  | 26 18 53 | 2♄34 41  | 29D25.4 | 0♄36.9  |
| 3 Th  | 8 45 59  | 10 34 22 | 8♄45 58  | 14 53 11 | 29 26.3 | 2 11.1  |
| 4 F   | 8 49 56  | 11 31 48 | 20 56 54 | 26 57 43 | 29 27.4 | 3 43.6  |
| 5 Sa  | 8 53 52  | 12 29 16 | 2♄56 14  | 8♄53 5   | 29R28.2 | 5 14.4  |
| 6 Su  | 8 57 49  | 13 26 44 | 14 48 56 | 20 44 23 | 29 27.7 | 6 43.5  |
| 7 M   | 9 1 46   | 14 24 14 | 26 40 5  | 2♄36 39  | 29 25.7 | 8 10.9  |
| 8 Tu  | 9 5 42   | 15 21 46 | 8♄34 38  | 14 34 36 | 29 21.9 | 9 36.5  |
| 9 W   | 9 9 39   | 16 19 18 | 20 37 1  | 26 42 21 | 29 16.5 | 11 0.4  |
| 10 Th | 9 13 35  | 17 16 52 | 2♄50 59  | 9♄3 14   | 29 10.0 | 12 22.5 |
| 11 F  | 9 17 32  | 18 14 28 | 15 19 20 | 21 39 29 | 29 3.0  | 13 42.7 |
| 12 Sa | 9 21 28  | 19 12 4  | 28 3 47  | 4♄32 14  | 28 56.2 | 15 1.1  |
| 13 Su | 9 25 25  | 20 9 42  | 11♄4 48  | 17 41 23 | 28 50.4 | 16 17.6 |
| 14 M  | 9 29 21  | 21 7 21  | 24 21 48 | 1♄5 50   | 28 46.0 | 17 32.0 |
| 15 Tu | 9 33 18  | 22 5 1   | 7♄53 14  | 14 43 43 | 28 43.5 | 18 44.4 |
| 16 W  | 9 37 15  | 23 2 42  | 21 36 58 | 28 32 42 | 28D42.6 | 19 54.7 |
| 17 Th | 9 41 11  | 24 0 24  | 5♄30 37  | 12♄30 26 | 28 43.1 | 21 2.9  |
| 18 F  | 9 45 8   | 24 58 7  | 19 31 52 | 26 34 40 | 28 44.4 | 22 8.7  |
| 19 Sa | 9 49 4   | 25 55 52 | 3♄38 36  | 10♄43 25 | 28 45.6 | 23 12.1 |
| 20 Su | 9 53 1   | 26 53 37 | 17 48 55 | 24 54 50 | 28R46.2 | 24 13.0 |
| 21 M  | 9 56 57  | 27 51 24 | 2♄0 58   | 9♄7 1    | 28 45.6 | 25 11.2 |
| 22 Tu | 10 0 54  | 28 49 12 | 16 12 44 | 23 17 47 | 28 43.8 | 26 6.7  |
| 23 W  | 10 4 50  | 29 47 1  | 0♄21 50  | 7♄24 31  | 28 40.7 | 26 59.3 |
| 24 Th | 10 8 47  | 0♄44 51  | 14 25 28 | 21 24 16 | 28 36.9 | 27 48.7 |
| 25 F  | 10 12 44 | 1 42 43  | 28 20 32 | 5♄13 53  | 28 32.9 | 28 34.9 |
| 26 Sa | 10 16 40 | 2 40 35  | 12♄3 58  | 18 50 25 | 28 29.3 | 29 17.5 |
| 27 Su | 10 20 37 | 3 38 30  | 25 32 59 | 2♄11 26  | 28 26.6 | 29 56.5 |
| 28 M  | 10 24 33 | 4 36 25  | 8♄45 37  | 15 15 26 | 28 25.0 | 0♄31.5  |
| 29 Tu | 10 28 30 | 5 34 23  | 21 40 53 | 28 2 2   | 28D24.6 | 1 2.4   |
| 30 W  | 10 32 26 | 6 32 21  | 4♄19 1   | 10♄32 2  | 28 25.1 | 1 28.8  |
| 31 Th | 10 36 23 | 7 30 22  | 16 41 23 | 22 47 23 | 28 26.4 | 1 50.5  |



## LONGITUDE

| ♀       | ♂       | ♄      | ♃       | ♆      | ♅       | ♁       |
|---------|---------|--------|---------|--------|---------|---------|
| 11 43.0 | 24 35.2 | 5 30.6 | 17 15.7 | 7 13.3 | 14 55.3 | 17 31.9 |
| 12 55.3 | 25 9.8  | 5 24.4 | 17 22.1 | 7 16.5 | 14 56.4 | 17 33.7 |
| 14 7.7  | 25 44.6 | 5 18.0 | 17 28.6 | 7 19.7 | 14 57.6 | 17 35.6 |
| 15 20.1 | 26 19.6 | 5 11.5 | 17 35.1 | 7 22.8 | 14 58.8 | 17 37.4 |
| 16 32.6 | 26 54.7 | 5 4.9  | 17 41.6 | 7 25.9 | 15 0.0  | 17 39.2 |
| 17 45.1 | 27 30.0 | 4 58.1 | 17 48.3 | 7 29.0 | 15 1.3  | 17 41.1 |
| 18 57.7 | 28 5.5  | 4 51.3 | 17 54.9 | 7 32.1 | 15 2.5  | 17 42.9 |
| 20 10.3 | 28 41.1 | 4 44.3 | 18 1.6  | 7 35.1 | 15 3.8  | 17 44.8 |
| 21 23.0 | 29 16.9 | 4 37.3 | 18 8.3  | 7 38.1 | 15 5.2  | 17 46.6 |
| 22 35.7 | 29 52.8 | 4 30.1 | 18 15.1 | 7 41.1 | 15 6.5  | 17 48.5 |
| 23 48.5 | 0 28.9  | 4 22.9 | 18 21.9 | 7 44.1 | 15 7.9  | 17 50.3 |
| 25 1.3  | 1 5.1   | 4 15.6 | 18 28.7 | 7 47.0 | 15 9.3  | 17 52.2 |
| 26 14.2 | 1 41.5  | 4 8.2  | 18 35.6 | 7 49.9 | 15 10.7 | 17 54.0 |
| 27 27.1 | 2 18.0  | 4 0.7  | 18 42.5 | 7 52.8 | 15 12.2 | 17 55.9 |
| 28 40.0 | 2 54.7  | 3 53.2 | 18 49.5 | 7 55.6 | 15 13.7 | 17 57.7 |
| 29 53.0 | 3 31.5  | 3 45.6 | 18 56.5 | 7 58.4 | 15 15.2 | 17 59.6 |
| 1 6.1   | 4 8.5   | 3 37.9 | 19 3.5  | 8 1.2  | 15 16.7 | 18 1.4  |
| 2 19.1  | 4 45.6  | 3 30.2 | 19 10.5 | 8 3.9  | 15 18.3 | 18 3.2  |
| 3 32.3  | 5 22.8  | 3 22.5 | 19 17.6 | 8 6.6  | 15 19.9 | 18 5.1  |
| 4 45.5  | 6 0.2   | 3 14.7 | 19 24.7 | 8 9.3  | 15 21.5 | 18 6.9  |
| 5 58.7  | 6 37.7  | 3 6.9  | 19 31.9 | 8 11.9 | 15 23.1 | 18 8.7  |
| 7 11.9  | 7 15.4  | 2 59.0 | 19 39.0 | 8 14.5 | 15 24.7 | 18 10.6 |
| 8 25.2  | 7 53.1  | 2 51.2 | 19 46.2 | 8 17.1 | 15 26.4 | 18 12.4 |
| 9 38.6  | 8 31.0  | 2 43.3 | 19 53.4 | 8 19.6 | 15 28.1 | 18 14.2 |
| 10 52.0 | 9 9.1   | 2 35.4 | 20 0.7  | 8 22.1 | 15 29.8 | 18 16.0 |
| 12 5.4  | 9 47.2  | 2 27.5 | 20 7.9  | 8 24.5 | 15 31.5 | 18 17.8 |
| 13 18.9 | 10 25.5 | 2 19.6 | 20 15.2 | 8 26.9 | 15 33.3 | 18 19.6 |
| 14 32.4 | 11 3.9  | 2 11.7 | 20 22.5 | 8 29.3 | 15 35.1 | 18 21.4 |
| 15 45.9 | 11 42.4 | 2 3.6  | 20 29.8 | 8 31.7 | 15 36.9 | 18 23.2 |
| 16 59.5 | 12 21.1 | 1 55.9 | 20 37.1 | 8 33.9 | 15 38.7 | 18 25.0 |
| 18 13.2 | 12 59.8 | 1 48.1 | 20 44.5 | 8 36.2 | 15 40.5 | 18 26.7 |

| H  | M   | S   |   |
|----|-----|-----|---|
| 9  | 09  | 39  | S.T. August 9, 1950                         |
| -9 | -12 | 00  | Hours <i>before</i> noon: <i>subtract</i>   |
|    | - 1 | -32 | Time correction: 10s per hour               |
|    |     | +80 | Longitude correction; 10s per zone; west: + |

For the time correction on the third line:  $10s \times 9H=90$   
 $10s \times 1/5H=2$   
 $90 + 2=92s$

For the longitude correction:  $\frac{120^\circ \text{ Meridian}}{15^\circ} = 8 \text{ Time Zones}$

For our last line, we note that San Francisco at  $122^\circ$  longitude west is west of the Central Time Meridian at  $120^\circ$  west. To "bring the sun to the main meridian," we *must come back to  $120^\circ$* : we must *subtract* the sun correction 4m per degree. We are correcting the sun back on its path, eastward to the meridian . . . we subtract:

| H     | M   | S   |   |
|-------|-----|-----|---|
| 9     | 09  | 39  | S.T. August 9, 1950                         |
| -9    | -12 | 00  | Hours <i>before</i> noon: <i>subtract</i>   |
|       | - 1 | -32 | Time correction: 10s per hour               |
|       |     | +80 | Longitude correction; 10s per zone; west: + |
|       | - 8 |     | Sun correction: 4m per degree; eastward: -  |
| <hr/> |     |     |   |
| 23    | 48  | 87  |   |

or 23 49 27 Corrected Sidereal Time

These subtractions are not difficult: in the “seconds” column 32 from 39 is 7; 7 plus 80 is 87; in the “minutes” column, 12, 1, and 8 . . . a total of 21 must be subtracted from 9 . . . *so we borrow one hour from the hour column*, 60 minutes, changing the “9” to “69,” and our subtraction 69-21 gives 48; in the “hours” column, an “8” remains (because we borrowed one hour). *We must add a full sidereal cycle* of 24 hours in order to make the subtraction:  $24 + 8 = 32$ ;  $32 - 9 = 23$ . Actually, your computations on the first line would show these moves like this:

| H  | M  | S  |                     |
|----|----|----|---------------------|
| 32 | 69 | 39 | S.T. August 9, 1950 |

And, of course, the very last line converts 87 seconds to 1 minute and 27 seconds.

These computations are not difficult. With each example, we’ve moved slightly faster. After practice on your own, the correction of the sidereal time will take almost no time at all, for sure! You will be familiar with time zones and you will automatically feel the *addition of time for births after noon* and the *subtraction of time for births before noon*. Most errors will be careless ones like putting corrections in seconds under the “minutes” column.

As we get into our discussion of the houses (the divisions) of the horoscope, we will discover a way to check on our sidereal time correction, so that, should you have made a large error, it will show up immediately. —You will be delighted with how quickly these few operations become swift and sure!

### 3

## Measuring the Houses

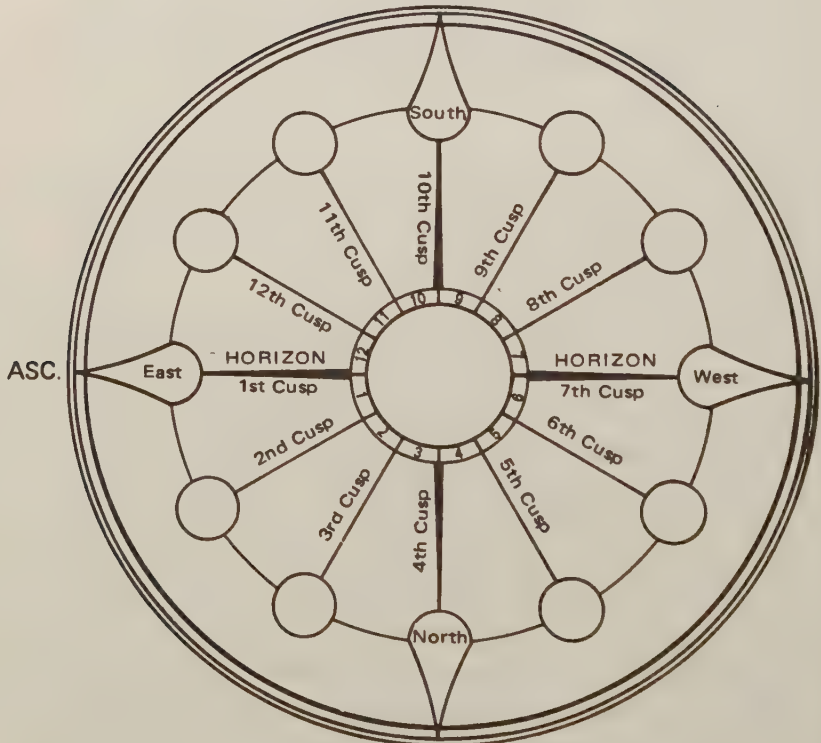
The horoscope is divided into twelve sectors called "houses." In interpretation of the horoscope, these houses hold the meanings for all the departments of man's life-experience.

Each of the twelve houses begins at a point called the "cusp." Almost all horoscope blanks have a circled area at the beginning of each house in which we place a degree number to mark *where in the heavens this house begins*. The houses become the organizational elements of the horoscope portrait. The planets will be placed throughout the houses, and the symbolic characteristics of the planets will accentuate or depress certain houses, certain departments of life-experience. There is much to say about the houses. They will be studied in depth in Volume Two of this series. This volume is concerned with construction of the horoscope only, setting up the picture.

To determine the house cusps takes about 30 seconds more! There is no more arithmetic needed.

*Explanation.* The houses comprise the whole vault of

ZENITH  
MID-HEAVEN



ASC.

NADIR  
IMUM COELI

the heavens as seen in projection from a point on Earth. The point directly overhead at the moment of birth at the birth location is the tenth cusp or the cusp of the X House. Astrologers call this the zenith or the Mid-Heaven. It is the highest point in the horoscope. It is the *South*.

The point opposite the Mid-Heaven is called the nadir or the *Imum Coeli*. It is the fourth cusp or the cusp of the IV House; the *North*.

The zenith-nadir axis (X-IV) is always shown with a strong vertical line.

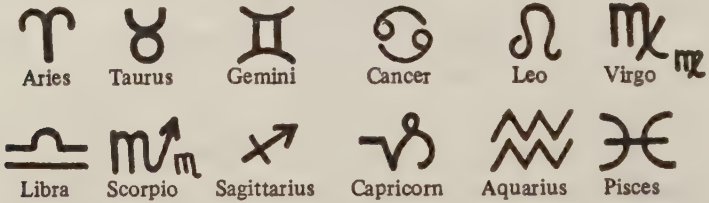
Perpendicular to the zenith-nadir (X-IV) axis is the *horizon*. At the left of the chart is the cusp of the I House, the first cusp. It is the *East*. This point is one of the most important points in the horoscope and in Astrology. It is called the *ascendant*.

Opposite the ascendant is the cusp of the VII House, the seventh cusp. It is the *West* and is called the *descendant*.

Picture the Earth within the sphere of the heavens. The heavens are divided into signs of the zodiac. The zodiac is stationary and, as the Earth revolves on its own axis once each day, the map of the heavens appears to go around the Earth once completely every day. One degree of the zodiac appears to move over the ascendant (first cusp; the East) every 4 minutes of man's time.

The houses are projections into the zodiac at the time and place of man's birth: his horizon, his zenith, the corresponding opposite points, and the points in-between. The *Tables of Houses* take care of all the arithmetic!

Astrology uses symbols for the signs of the zodiac and for the planets. You must learn to write these symbols clearly. It will take you a day or so to learn them well. Work with them in this order exactly:



Know them in order from Aries, Taurus . . . through Pisces. *Know them in opposites as well:* Aries-Libra, Taurus-Scorpio, Gemini-Sagittarius, Cancer-Capricorn, Leo-Aquarius, Virgo-Pisces. *Learn these well.*

Now, to measure the houses, to fill-in the cusp points where each house begins, we need only to note the *latitude* of the birth-place. The latitude markings are the *horizontal* lines on all maps *north* or *south* (above or below) from the equator. Major U.S. cities with their latitudes (and longitudes) are listed at the end of the *American Book of Tables*.  
 New York City: lat. 40° N 43' (round off to 41°)  
 Boston: lat. 42° N 22' (round off to 42°)  
 San Francisco: lat. 37° N 47' (round off to 38°)

Latitude is very important because the Earth is not a perfect sphere. At the equator (00 latitude), the projection of the signs of the zodiac to become our "houses" would be seen in equal divisions. As we progress away from the



equator and curve toward the poles, the projection into the heavens changes, becomes congested very far north. Certain houses expand and others diminish — an “accordion” effect. The *Tables of Houses* take care of these changes.

In our first example, for the birth March 23, 1950 at 6:30, EST in New York City, latitude 41 north, longitude 74 west, we had a corrected sidereal time of 6H-37M-32S. Look into the *Table of Houses* under the nearest Sidereal Time to our corrected one. We see it comes closest to 6H-36M-00S (always take the closer listing). These listings are the first numbers at the top left of each column and advance in exact 4 minute intervals (6H-24M-00S; 6H-28M-00S; 6H-32M-00S; 6H-36M-00S).

|           |    |        |   |   |           |  |
|-----------|----|--------|---|---|-----------|--|
| 6h 36m 0s |    | 8 9 16 |   |   | 99° 0' 0" |  |
| 11        | 12 | ASC    | 2 | 3 |           |  |

The notation to the right of the sidereal time (directly above the column labeled “ASC”) represents the *tenth cusp, the Mid-Heaven*. In our example this will be 8 9 16' (the notation further to the right—99° 0' 00"—represents *Right Ascension* which is not important for us at this stage of learning).

At the heading of each column, we see the numbers 11,

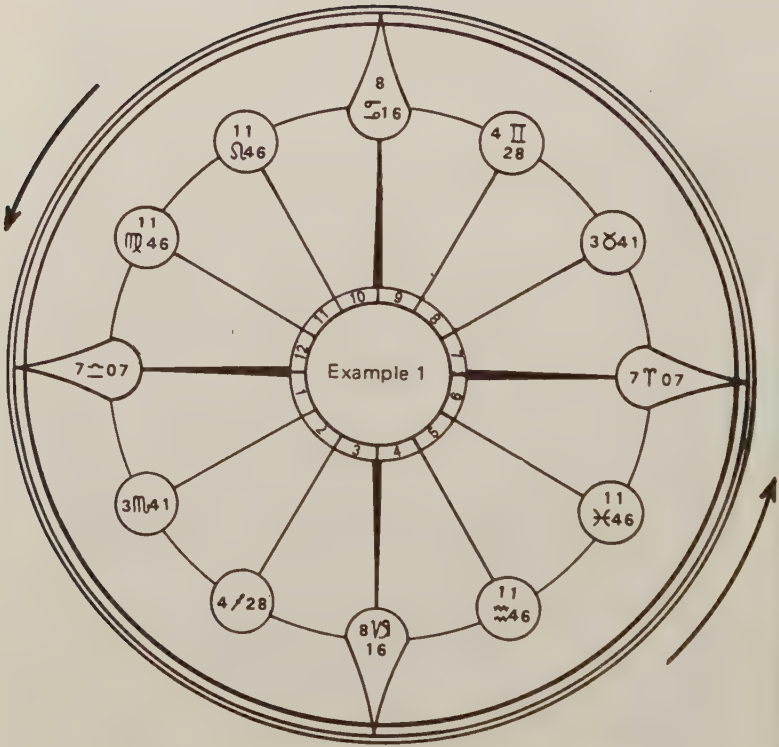
Placidus Table of Houses

| 6h 24m 0s |       | 96° 0' 0" |       |       |
|-----------|-------|-----------|-------|-------|
| 11        | 12    | ASC       | 2     | 3     |
| 3Ω41      | 4M7   | 6Δ32      | 8M23  | 7R47  |
| 4 15      | 4 43  | 6 18      | 7 31  | 7 10  |
| 4 49      | 5 19  | 6 4       | 6 41  | 6 32  |
| 5 24      | 5 54  | 5 51      | 5 51  | 5 54  |
| 6 0       | 6 29  | 5 39      | 5 1   | 5 14  |
| 6 7       | 6 36  | 5 36      | 4 51  | 5 5   |
| 6 14      | 6 43  | 5 34      | 4 41  | 4 57  |
| 6 22      | 6 50  | 5 31      | 4 31  | 4 49  |
| 6 30      | 6 57  | 5 29      | 4 20  | 4 40  |
| 6 37      | 7 5   | 5 26      | 4 10  | 4 31  |
| 6 45      | 7 12  | 5 24      | 3 59  | 4 23  |
| 6 53      | 7 19  | 5 21      | 3 49  | 4 14  |
| 7 1       | 7 27  | 5 19      | 3 38  | 4 4   |
| 7 10      | 7 34  | 5 16      | 3 27  | 3 55  |
| 7 18      | 7 42  | 5 14      | 3 17  | 3 46  |
| 7 26      | 7 49  | 5 11      | 3 6   | 3 36  |
| 7 35      | 7 57  | 5 9       | 2 55  | 3 26  |
| 7 44      | 8 5   | 5 6       | 2 43  | 3 16  |
| 7 53      | 8 12  | 5 4       | 2 32  | 3 6   |
| 8 2       | 8 20  | 5 1       | 2 20  | 2 55  |
| 8 12      | 8 28  | 4 58      | 2 9   | 2 45  |
| 8 21      | 8 36  | 4 56      | 1 57  | 2 34  |
| 8 31      | 8 45  | 4 53      | 1 45  | 2 22  |
| 8 41      | 8 53  | 4 50      | 1 32  | 2 11  |
| 8 51      | 9 2   | 4 48      | 1 20  | 1 59  |
| 9 2       | 9 10  | 4 45      | 1 7   | 1 47  |
| 9 13      | 9 19  | 4 42      | 0 54  | 1 34  |
| 9 24      | 9 28  | 4 39      | 0 41  | 1 21  |
| 9 36      | 9 37  | 4 37      | 0 28  | 1 7   |
| 9 48      | 9 46  | 4 34      | 0 14  | 0 53  |
| 10 0      | 9 56  | 4 31      | 0 0   | 0 39  |
| 10 13     | 10 6  | 4 28      | 29Δ46 | 0 24  |
| 10 26     | 10 15 | 4 25      | 29 31 | 0 9   |
| 10 40     | 10 26 | 4 22      | 29 16 | 29M52 |
| 10 54     | 10 36 | 4 19      | 29 1  | 29 36 |
| 11 9      | 10 47 | 4 16      | 28 45 | 29 18 |
| 11 24     | 10 58 | 4 12      | 28 28 | 29 0  |
| 11 40     | 11 9  | 4 9       | 28 12 | 28 41 |
| 11 57     | 11 20 | 4 6       | 27 55 | 28 21 |
| 12 14     | 11 32 | 4 2       | 27 37 | 28 0  |
| 12 33     | 11 44 | 3 59      | 27 19 | 27 38 |
| 12 52     | 11 57 | 3 55      | 27 0  | 27 14 |
| 13 12     | 12 10 | 3 52      | 26 40 | 26 50 |
| 13 33     | 12 23 | 3 48      | 26 20 | 26 23 |
| 13Ω56     | 12M37 | 3Δ44      | 25Δ59 | 25M56 |

| 6h 28m 0s |       | 97° 0' 0" |       |       | LAT. |
|-----------|-------|-----------|-------|-------|------|
| 11        | 12    | ASC       | 2     | 3     |      |
| 4Ω39      | 5M10  | 7Δ37      | 9M24  | 8R43  | 0    |
| 5 13      | 5 45  | 7 21      | 8 32  | 8 6   | 5    |
| 5 47      | 6 20  | 7 5       | 7 40  | 7 28  | 10   |
| 6 21      | 6 53  | 6 50      | 6 49  | 6 49  | 15   |
| 6 56      | 7 27  | 6 35      | 5 58  | 6 9   | 20   |
| 7 4       | 7 34  | 6 32      | 5 48  | 6 1   | 21   |
| 7 11      | 7 41  | 6 29      | 5 37  | 5 52  | 22   |
| 7 19      | 7 48  | 6 26      | 5 27  | 5 44  | 23   |
| 7 26      | 7 54  | 6 24      | 5 16  | 5 35  | 24   |
| 7 34      | 8 1   | 6 21      | 5 6   | 5 27  | 25   |
| 7 41      | 8 8   | 6 18      | 4 55  | 5 18  | 26   |
| 7 49      | 8 15  | 6 15      | 4 44  | 5 9   | 27   |
| 7 57      | 8 23  | 6 12      | 4 33  | 4 59  | 28   |
| 8 5       | 8 30  | 6 9       | 4 22  | 4 50  | 29   |
| 8 14      | 8 37  | 6 6       | 4 11  | 4 40  | 30   |
| 8 22      | 8 44  | 6 3       | 4 0   | 4 31  | 31   |
| 8 31      | 8 51  | 6 0       | 3 48  | 4 21  | 32   |
| 8 39      | 8 59  | 5 57      | 3 37  | 4 11  | 33   |
| 8 48      | 9 6   | 5 54      | 3 25  | 4 0   | 34   |
| 8 57      | 9 14  | 5 51      | 3 13  | 3 50  | 35   |
| 9 7       | 9 22  | 5 48      | 3 1   | 3 39  | 36   |
| 9 16      | 9 30  | 5 45      | 2 49  | 3 28  | 37   |
| 9 26      | 9 37  | 5 42      | 2 37  | 3 16  | 38   |
| 9 36      | 9 45  | 5 39      | 2 24  | 3 5   | 39   |
| 9 46      | 9 54  | 5 36      | 2 12  | 2 53  | 40   |
| 9 57      | 10 2  | 5 32      | 1 59  | 2 40  | 41   |
| 10 7      | 10 10 | 5 29      | 1 45  | 2 27  | 42   |
| 10 18     | 10 19 | 5 26      | 1 32  | 2 14  | 43   |
| 10 30     | 10 28 | 5 23      | 1 18  | 2 1   | 44   |
| 10 42     | 10 37 | 5 19      | 1 4   | 1 47  | 45   |
| 10 54     | 10 46 | 5 16      | 0 49  | 1 32  | 46   |
| 11 6      | 10 55 | 5 12      | 0 35  | 1 17  | 47   |
| 11 19     | 11 5  | 5 9       | 0 20  | 1 1   | 48   |
| 11 33     | 11 14 | 5 5       | 0 4   | 0 45  | 49   |
| 11 47     | 11 24 | 5 2       | 29Δ48 | 0 28  | 50   |
| 12 1      | 11 34 | 4 58      | 29 32 | 0 10  | 51   |
| 12 17     | 11 45 | 4 54      | 29 15 | 29M52 | 52   |
| 12 32     | 11 56 | 4 51      | 28 58 | 29 32 | 53   |
| 12 49     | 12 7  | 4 47      | 28 41 | 29 12 | 54   |
| 13 6      | 12 18 | 4 43      | 28 22 | 28 51 | 55   |
| 13 24     | 12 30 | 4 39      | 28 4  | 28 28 | 56   |
| 13 43     | 12 42 | 4 34      | 27 44 | 28 5  | 57   |
| 14 3      | 12 54 | 4 30      | 27 24 | 27 40 | 58   |
| 14 23     | 13 7  | 4 26      | 27 4  | 27 13 | 59   |
| 14Ω45     | 13M20 | 4Δ21      | 26Δ42 | 26M45 | 60   |

for Latitudes 0° to 60° North

| LAT. | 6h 32m 0s 98° 0' 0" |       |      |       |       | 6h 36m 0s 99° 0' 0" |       |      |       |       |
|------|---------------------|-------|------|-------|-------|---------------------|-------|------|-------|-------|
|      | 7 S 21              |       |      |       |       | 8 S 16              |       |      |       |       |
|      | 11                  | 12    | ASC  | 2     | 3     | 11                  | 12    | ASC  | 2     | 3     |
| 0    | 5938                | 6014  | 8243 | 10025 | 9240  | 6037                | 7018  | 9248 | 11026 | 10236 |
| 5    | 6 11                | 6 48  | 8 24 | 9 32  | 9 2   | 7 9                 | 7 50  | 9 26 | 10 31 | 9 58  |
| 10   | 6 44                | 7 21  | 8 6  | 8 39  | 8 24  | 7 42                | 8 22  | 9 6  | 9 38  | 9 20  |
| 15   | 7 18                | 7 53  | 7 48 | 7 47  | 7 45  | 8 16                | 8 53  | 8 47 | 8 45  | 8 41  |
| 20   | 7 53                | 8 25  | 7 32 | 6 55  | 7 5   | 8 50                | 9 24  | 8 28 | 7 52  | 8 0   |
| 21   | 8 1                 | 8 32  | 7 28 | 6 44  | 6 56  | 8 58                | 9 30  | 8 24 | 7 41  | 7 52  |
| 22   | 8 8                 | 8 38  | 7 25 | 6 34  | 6 48  | 9 5                 | 9 36  | 8 20 | 7 30  | 7 43  |
| 23   | 8 15                | 8 45  | 7 22 | 6 23  | 6 39  | 9 12                | 9 42  | 8 17 | 7 19  | 7 34  |
| 24   | 8 23                | 8 52  | 7 18 | 6 12  | 6 30  | 9 19                | 9 49  | 8 13 | 7 8   | 7 26  |
| 25   | 8 30                | 8 58  | 7 15 | 6 1   | 6 22  | 9 27                | 9 55  | 8 9  | 6 57  | 7 17  |
| 26   | 8 38                | 9 5   | 7 12 | 5 50  | 6 13  | 9 34                | 10 1  | 8 6  | 6 45  | 7 8   |
| 27   | 8 46                | 9 12  | 7 8  | 5 39  | 6 4   | 9 42                | 10 8  | 8 2  | 6 34  | 6 58  |
| 28   | 8 54                | 9 18  | 7 5  | 5 28  | 5 54  | 9 50                | 10 14 | 7 58 | 6 23  | 6 49  |
| 29   | 9 2                 | 9 25  | 7 2  | 5 17  | 5 45  | 9 58                | 10 21 | 7 54 | 6 11  | 6 40  |
| 30   | 9 10                | 9 32  | 6 58 | 5 5   | 5 35  | 10 6                | 10 28 | 7 50 | 6 0   | 6 30  |
| 31   | 9 18                | 9 39  | 6 55 | 4 54  | 5 25  | 10 14               | 10 34 | 7 47 | 5 48  | 6 20  |
| 32   | 9 26                | 9 46  | 6 51 | 4 42  | 5 15  | 10 22               | 10 41 | 7 43 | 5 36  | 6 10  |
| 33   | 9 35                | 9 53  | 6 48 | 4 30  | 5 5   | 10 31               | 10 48 | 7 39 | 5 24  | 6 0   |
| 34   | 9 44                | 10 1  | 6 45 | 4 18  | 4 55  | 10 39               | 10 55 | 7 35 | 5 12  | 5 49  |
| 35   | 9 53                | 10 8  | 6 41 | 4 6   | 4 44  | 10 48               | 11 2  | 7 31 | 4 59  | 5 38  |
| 36   | 10 2                | 10 15 | 6 38 | 3 54  | 4 33  | 10 57               | 11 9  | 7 27 | 4 47  | 5 27  |
| 37   | 10 11               | 10 23 | 6 34 | 3 42  | 4 22  | 11 7                | 11 16 | 7 23 | 4 34  | 5 16  |
| 38   | 10 21               | 10 30 | 6 31 | 3 29  | 4 10  | 11 16               | 11 23 | 7 19 | 4 21  | 5 4   |
| 39   | 10 31               | 10 38 | 6 27 | 3 16  | 3 59  | 11 26               | 11 30 | 7 15 | 4 8   | 4 53  |
| 40   | 10 41               | 10 46 | 6 24 | 3 3   | 3 46  | 11 36               | 11 38 | 7 11 | 3 54  | 4 40  |
| 41   | 10 51               | 10 54 | 6 20 | 2 50  | 3 34  | 11 46               | 11 46 | 7 7  | 3 41  | 4 28  |
| 42   | 11 2                | 11 2  | 6 16 | 2 36  | 3 21  | 11 56               | 11 53 | 7 3  | 3 27  | 4 15  |
| 43   | 11 13               | 11 10 | 6 12 | 2 22  | 3 8   | 12 7                | 12 1  | 6 59 | 3 13  | 4 1   |
| 44   | 11 24               | 11 18 | 6 9  | 2 8   | 2 54  | 12 18               | 12 9  | 6 55 | 2 58  | 3 47  |
| 45   | 11 36               | 11 27 | 6 5  | 1 54  | 2 40  | 12 30               | 12 17 | 6 50 | 2 43  | 3 33  |
| 46   | 11 48               | 11 36 | 6 1  | 1 39  | 2 25  | 12 41               | 12 26 | 6 46 | 2 28  | 3 18  |
| 47   | 12 0                | 11 45 | 5 57 | 1 24  | 2 10  | 12 53               | 12 34 | 6 42 | 2 13  | 3 3   |
| 48   | 12 13               | 11 54 | 5 53 | 1 8   | 1 54  | 13 6                | 12 43 | 6 37 | 1 57  | 2 47  |
| 49   | 12 26               | 12 3  | 5 49 | 0 52  | 1 37  | 13 19               | 12 52 | 6 33 | 1 41  | 2 30  |
| 50   | 12 40               | 12 13 | 5 45 | 0 36  | 1 20  | 13 33               | 13 1  | 6 28 | 1 24  | 2 13  |
| 51   | 12 54               | 12 22 | 5 41 | 0 20  | 1 2   | 13 47               | 13 10 | 6 23 | 1 7   | 1 54  |
| 52   | 13 9                | 12 32 | 5 36 | 0 2   | 0 44  | 14 1                | 13 20 | 6 18 | 0 49  | 1 35  |
| 53   | 13 24               | 12 43 | 5 32 | 29245 | 0 24  | 14 17               | 13 30 | 6 14 | 0 31  | 1 16  |
| 54   | 13 41               | 12 53 | 5 28 | 29 27 | 0 3   | 14 32               | 13 40 | 6 9  | 0 13  | 0 55  |
| 55   | 13 57               | 13 4  | 5 23 | 29 8  | 29042 | 14 49               | 13 50 | 6 3  | 29253 | 0 33  |
| 56   | 14 15               | 13 15 | 5 18 | 28 49 | 29 19 | 15 6                | 14 1  | 5 58 | 29 34 | 0 10  |
| 57   | 14 34               | 13 27 | 5 14 | 28 29 | 28 55 | 15 24               | 14 12 | 5 53 | 29 13 | 29045 |
| 58   | 14 53               | 13 39 | 5 9  | 28 8  | 28 30 | 15 44               | 14 23 | 5 47 | 28 52 | 29 20 |
| 59   | 15 13               | 13 51 | 5 4  | 27 47 | 28 3  | 16 4                | 14 35 | 5 42 | 28 30 | 28 52 |
| 60   | 15035               | 1404  | 4259 | 27225 | 27034 | 16025               | 14047 | 5236 | 2828  | 28023 |



12, ASC, 2, 3. These refer to the remaining house cusps, and the zodiac signs immediately underneath these numbers *give signs to the numbers* that follow below in each column. Look at page 35: in the extreme left column, labeled "LAT", are numbers going from 0–60. These numbers represent degrees north or south of the equator. Put your finger on latitude 41, go across to the second column under the numbers 6H–36M–00S and, under column 11, you will find 11 ♃ 46. This becomes our eleventh cusp. Under the column marked 12 at LAT. 41, we see 11 ♄ 46 and this becomes our twelfth cusp. Under the ASC column is 7 ♌ 07. This becomes the ascendant or first house cusp. The second cusp is 3 ♍ 41 and the third is 4 ♋ 28.

In summary, our job is to find the table closest to our corrected sidereal time, note the Mid-Heaven (tenth cusp), read down to the appropriate latitude, and record the numbers (degrees and minutes) for each remaining cusp (11–3), reading *upwards* in each cusp column to discover the sign.

On your work sheet, before entering the *Tables of Houses* write the cusp numbers as follows:

|     |    |
|-----|----|
| 10. | 1. |
| 11. | 2. |
| 12. | 3. |

Enter your *Table of Houses* finding the table nearest to your corrected sidereal time, and record the number and sign for these six cusps on your work sheet:

|             |           |
|-------------|-----------|
| 10. 8 ☉ 16  | 1. 7 ≈ 07 |
| 11. 11 ♀ 46 | 2. 3 ♃ 41 |
| 12. 11 ♆ 46 | 3. 4 ✕ 28 |

These cuspal degrees can then be transferred directly to the horoscope blank as shown in example 1. —The remaining house cusps should be filled *with the same degree number in the opposite sign*. With the Mid-Heaven (MH) at 8 ☉ 16, the nadir (fourth cusp; IV House) becomes 8 ♁ 16. Capricorn is the sign always opposite Cancer. Then 11 ≈ 46 would be on the cusp of the V house opposite 11 ♀ 46 on the XI house. 11 ✕ 46 would be opposite 11 ♆ 46, and 7 ♃ 07 would be on the descendant opposite 7 ≈ 07 on the Ascendant; etc.

When you learn the sign polarities, the pairs of opposites, this will be so easy!

Now you see the horoscope diagram with all the cusps completed. at this moment of this example birth in New York City, the point directly overhead was 8 ☉ 16 and the point rising on the Ascendant was 7 ≈ 07.

*Second Example.* Our second example for sidereal time correction gave us a final time of 01-9-32 for the Boston birth at latitude 42 N, longitude 71W.

We look into our *Table of Houses* and find that the closest sidereal time is 1H-08M-00S. This gives us a Mid-Heaven of 18 ♃ 26. Go down the latitude column to 42 and record on your work sheet the cusp markings listed there:

|             |            |
|-------------|------------|
| 10. 18 ♃ 26 | 1. 3 ♀ 14  |
| 11. 25 ♄ 24 | 2. 23 ♀ 11 |
| 12. 2 ☉ 07  | 3. 17 ♆ 29 |

Note that the signs shifted in the twelfth cusp column from Gemini to Cancer, and, in the Ascendant column, from Cancer to Leo. Each sign has 30 degrees. Twelve signs complete the circle. Sometimes the signs change within the column from top to bottom. We see this in the 12th cusp column which at the top has 18 02, but changes to Cancer about half way down at LAT. 38. The same thing occurs in the ASC column at LAT. 36.

You may notice immediately – and think you’ve made a mistake – that we have Leo (♌) on the first (Asc.) and second cusps and that Gemini (♊) is missing between Taurus (♉) on the eleventh and Cancer (♋) on the twelfth! This is not a mistake.

You would have seen this immediately if you had memorized the signs thoroughly and in order. The signs always have to be represented. They always go in order through the zodiac. They never, never change this order, this continuity. What happens is this: remember on page 33 we discussed how the house-sign projections into the heavens expand and diminish with the curvature of the Earth, the “accordion” effect. This has happened now in the example above. The *Tables* have made the adjustment. Astrologers say that the sign is *intercepted* (and its opposite sign also, as we will see). Gemini will be intercepted in the XI House (after Taurus and before Cancer, where it belongs in the order of the signs). Sagittarius, the sign opposite Gemini, will be intercepted in the V House (the house opposite the XI) after Scorpio and before Capricorn. The signs are simply congested a bit to

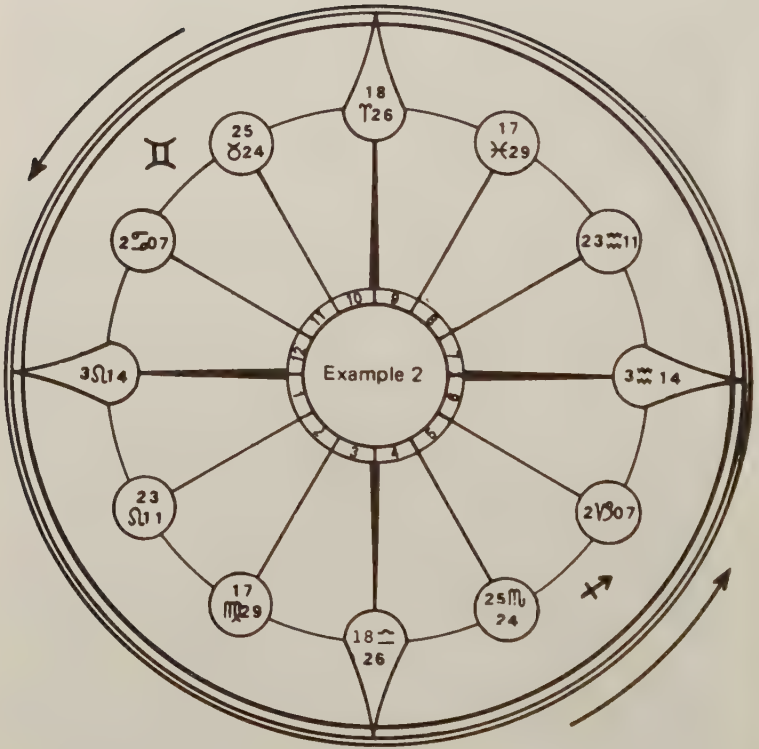
| 1h 4m 0s |        | 17° 7' 21" |       |       | 16° 0' 0" |  |
|----------|--------|------------|-------|-------|-----------|--|
| 11       | 12     | ASC        | 2     | 3     |           |  |
| 18528    | 1711 7 | 14544      | 13532 | 14548 |           |  |
| 18 59    | 18 25  | 16 40      | 14 31 | 14 59 |           |  |
| 19 31    | 19 46  | 18 35      | 15 30 | 15 10 |           |  |
| 20 5     | 21 10  | 20 30      | 16 28 | 15 21 |           |  |
| 20 42    | 22 39  | 22 29      | 17 27 | 15 33 |           |  |
| 20 49    | 22 57  | 22 53      | 17 39 | 15 35 |           |  |
| 20 57    | 23 16  | 23 17      | 17 51 | 15 37 |           |  |
| 21 5     | 23 35  | 23 41      | 18 3  | 15 40 |           |  |
| 21 13    | 23 55  | 24 6       | 18 15 | 15 42 |           |  |
| 21 21    | 24 15  | 24 31      | 18 27 | 15 45 |           |  |
| 21 29    | 24 35  | 24 56      | 18 39 | 15 47 |           |  |
| 21 38    | 24 55  | 25 22      | 18 52 | 15 49 |           |  |
| 21 47    | 25 16  | 25 47      | 19 5  | 15 52 |           |  |
| 21 56    | 25 38  | 26 13      | 19 17 | 15 55 |           |  |
| 22 5     | 26 0   | 26 40      | 19 30 | 15 57 |           |  |
| 22 15    | 26 22  | 27 6       | 19 43 | 16 0  |           |  |
| 22 24    | 26 45  | 27 33      | 19 56 | 16 2  |           |  |
| 22 34    | 27 9   | 28 0       | 20 10 | 16 5  |           |  |
| 22 45    | 27 33  | 28 28      | 20 23 | 16 8  |           |  |
| 22 55    | 27 58  | 28 56      | 20 37 | 16 11 |           |  |
| 23 6     | 28 23  | 29 25      | 20 51 | 16 13 |           |  |
| 23 17    | 28 49  | 29 54      | 21 5  | 16 16 |           |  |
| 23 29    | 29 16  | 0023       | 21 20 | 16 19 |           |  |
| 23 41    | 29 44  | 0 53       | 21 34 | 16 22 |           |  |
| 23 54    | 0512   | 1 24       | 21 49 | 16 25 |           |  |
| 24 7     | 0 42   | 1 55       | 22 5  | 16 28 |           |  |
| 24 20    | 1 13   | 2 27       | 22 20 | 16 32 |           |  |
| 24 35    | 1 44   | 2 59       | 22 36 | 16 35 |           |  |
| 24 49    | 2 17   | 3 32       | 22 52 | 16 38 |           |  |
| 25 5     | 2 51   | 4 6        | 23 9  | 16 42 |           |  |
| 25 21    | 3 26   | 4 40       | 23 26 | 16 45 |           |  |
| 25 38    | 4 3    | 5 15       | 23 43 | 16 49 |           |  |
| 25 56    | 4 42   | 5 51       | 24 1  | 16 53 |           |  |
| 26 15    | 5 22   | 6 28       | 24 19 | 16 56 |           |  |
| 26 35    | 6 3    | 7 6        | 24 38 | 17 0  |           |  |
| 26 56    | 6 47   | 7 45       | 24 57 | 17 5  |           |  |
| 27 18    | 7 33   | 8 25       | 25 17 | 17 9  |           |  |
| 27 42    | 8 21   | 9 5        | 25 37 | 17 13 |           |  |
| 28 7     | 9 12   | 9 47       | 25 58 | 17 18 |           |  |
| 28 35    | 10 5   | 10 30      | 26 20 | 17 22 |           |  |
| 29 5     | 11 1   | 11 15      | 26 42 | 17 27 |           |  |
| 29 37    | 12 1   | 12 0       | 27 5  | 17 32 |           |  |
| 0II12    | 13 4   | 12 47      | 27 29 | 17 38 |           |  |
| 0 50     | 14 11  | 13 35      | 27 54 | 17 43 |           |  |
| 1II33    | 1522   | 14025      | 28019 | 1749  |           |  |

| 1h 8m 0s |        | 18° 7' 26" |       |       | 17° 0' 0" |    | LAT. |
|----------|--------|------------|-------|-------|-----------|----|------|
| 11       | 12     | ASC        | 2     | 3     |           |    |      |
| 19527    | 1811 2 | 15540      | 14532 | 15553 |           | 0  |      |
| 19 59    | 19 21  | 17 35      | 15 30 | 16 3  |           | 5  |      |
| 20 32    | 20 42  | 19 29      | 16 28 | 16 13 |           | 10 |      |
| 21 6     | 22 6   | 21 24      | 17 25 | 16 24 |           | 15 |      |
| 21 43    | 23 35  | 23 22      | 18 23 | 16 34 |           | 20 |      |
| 21 50    | 23 53  | 23 46      | 18 35 | 16 36 |           | 21 |      |
| 21 58    | 24 12  | 24 10      | 18 46 | 16 39 |           | 22 |      |
| 22 6     | 24 31  | 24 34      | 18 58 | 16 41 |           | 23 |      |
| 22 14    | 24 51  | 24 58      | 19 10 | 16 43 |           | 24 |      |
| 22 23    | 25 11  | 25 23      | 19 22 | 16 45 |           | 25 |      |
| 22 31    | 25 31  | 25 48      | 19 34 | 16 48 |           | 26 |      |
| 22 40    | 25 51  | 26 13      | 19 47 | 16 50 |           | 27 |      |
| 22 49    | 26 12  | 26 39      | 19 59 | 16 52 |           | 28 |      |
| 22 58    | 26 34  | 27 4       | 20 11 | 16 55 |           | 29 |      |
| 23 7     | 26 56  | 27 30      | 20 24 | 16 57 |           | 30 |      |
| 23 17    | 27 18  | 27 57      | 20 37 | 16 59 |           | 31 |      |
| 23 27    | 27 41  | 28 23      | 20 50 | 17 2  |           | 32 |      |
| 23 37    | 28 4   | 28 50      | 21 3  | 17 4  |           | 33 |      |
| 23 47    | 28 28  | 29 18      | 21 16 | 17 7  |           | 34 |      |
| 23 58    | 28 53  | 29 46      | 21 30 | 17 10 |           | 35 |      |
| 24 9     | 29 18  | 0014       | 21 43 | 17 12 |           | 36 |      |
| 24 20    | 29 44  | 0 43       | 21 57 | 17 15 |           | 37 |      |
| 24 32    | 0511   | 1 12       | 22 12 | 17 18 |           | 38 |      |
| 24 45    | 0 39   | 1 41       | 22 26 | 17 20 |           | 39 |      |
| 24 57    | 1 7    | 2 12       | 22 41 | 17 23 |           | 40 |      |
| 25 10    | 1 37   | 2 42       | 22 55 | 17 26 |           | 41 |      |
| 25 24    | 2 7    | 3 14       | 23 11 | 17 29 |           | 42 |      |
| 25 38    | 2 39   | 3 46       | 23 26 | 17 32 |           | 43 |      |
| 25 53    | 3 11   | 4 18       | 23 42 | 17 35 |           | 44 |      |
| 26 9     | 3 45   | 4 52       | 23 58 | 17 38 |           | 45 |      |
| 26 25    | 4 20   | 5 26       | 24 15 | 17 42 |           | 46 |      |
| 26 43    | 4 57   | 6 0        | 24 32 | 17 45 |           | 47 |      |
| 27 1     | 5 35   | 6 36       | 24 49 | 17 49 |           | 48 |      |
| 27 20    | 6 14   | 7 12       | 25 7  | 17 52 |           | 49 |      |
| 27 40    | 6 56   | 7 49       | 25 25 | 17 56 |           | 50 |      |
| 28 1     | 7 39   | 8 28       | 25 44 | 18 0  |           | 51 |      |
| 28 24    | 8 25   | 9 7        | 26 3  | 18 4  |           | 52 |      |
| 28 48    | 9 12   | 9 47       | 26 23 | 18 8  |           | 53 |      |
| 29 14    | 10 2   | 10 28      | 26 44 | 18 12 |           | 54 |      |
| 29 42    | 10 55  | 11 11      | 27 5  | 18 16 |           | 55 |      |
| 0II11    | 11 51  | 11 54      | 27 27 | 18 21 |           | 56 |      |
| 0 44     | 12 49  | 12 39      | 27 49 | 18 26 |           | 57 |      |
| 1 19     | 13 52  | 13 25      | 28 13 | 18 31 |           | 58 |      |
| 1 58     | 14 58  | 14 13      | 28 37 | 18 36 |           | 59 |      |
| 2II42    | 165 8  | 150 2      | 290 2 | 1841  |           | 60 |      |



| 23h 44m 0s      356° 0' 0" |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| 25 X 38                    |       |       |       |       |
| 11                         | 12    | ASC   | 2     | 3     |
| 28T 0                      | 28815 | 26120 | 24S 6 | 23Q41 |
| 28 20                      | 29 25 | 28 19 | 25 20 | 24 5  |
| 28 41                      | 0139  | 0521  | 26 33 | 24 30 |
| 29 3                       | 1 57  | 2 27  | 27 46 | 24 55 |
| 29 27                      | 3 20  | 4 38  | 29 2  | 25 21 |
| 29 32                      | 3 38  | 5 5   | 29 17 | 25 26 |
| 29 37                      | 3 56  | 5 32  | 29 33 | 25 31 |
| 29 43                      | 4 14  | 6 0   | 29 49 | 25 37 |
| 29 48                      | 4 33  | 6 28  | 0Q 5  | 25 42 |
| 29 53                      | 4 52  | 6 57  | 0 21  | 25 47 |
| 29 59                      | 5 11  | 7 26  | 0 37  | 25 53 |
| 0 5                        | 5 32  | 7 55  | 0 54  | 25 59 |
| 0 11                       | 5 52  | 8 25  | 1 10  | 26 4  |
| 0 17                       | 6 13  | 8 55  | 1 27  | 26 10 |
| 0 23                       | 6 35  | 9 26  | 1 44  | 26 16 |
| 0 29                       | 6 57  | 9 57  | 2 2   | 26 22 |
| 0 35                       | 7 20  | 10 29 | 2 19  | 26 28 |
| 0 42                       | 7 43  | 11 2  | 2 37  | 26 34 |
| 0 49                       | 8 7   | 11 35 | 2 56  | 26 40 |
| 0 56                       | 8 32  | 12 8  | 3 14  | 26 47 |
| 1 3                        | 8 58  | 12 43 | 3 33  | 26 53 |
| 1 11                       | 9 25  | 13 18 | 3 52  | 27 0  |
| 1 19                       | 9 52  | 13 54 | 4 12  | 27 7  |
| 1 27                       | 10 21 | 14 31 | 4 32  | 27 13 |
| 1 36                       | 10 51 | 15 8  | 4 53  | 27 21 |
| 1 44                       | 11 22 | 15 47 | 5 14  | 27 28 |
| 1 54                       | 11 54 | 16 26 | 5 35  | 27 35 |
| 2 3                        | 12 27 | 17 6  | 5 57  | 27 43 |
| 2 13                       | 13 2  | 17 48 | 6 20  | 27 51 |
| 2 23                       | 13 39 | 18 30 | 6 43  | 27 59 |
| 2 34                       | 14 17 | 19 14 | 7 7   | 28 7  |
| 2 46                       | 14 57 | 19 59 | 7 31  | 28 16 |
| 2 58                       | 15 40 | 20 45 | 7 56  | 28 24 |
| 3 11                       | 16 24 | 21 32 | 8 22  | 28 33 |
| 3 24                       | 17 11 | 22 21 | 8 49  | 28 43 |
| 3 38                       | 18 1  | 23 11 | 9 16  | 28 52 |
| 3 53                       | 18 53 | 24 3  | 9 45  | 29 3  |
| 4 9                        | 19 49 | 24 57 | 10 14 | 29 13 |
| 4 27                       | 20 49 | 25 52 | 10 45 | 29 24 |
| 4 45                       | 21 53 | 26 49 | 11 16 | 29 35 |
| 5 5                        | 23 1  | 27 48 | 11 49 | 29 47 |
| 5 26                       | 24 15 | 28 49 | 12 23 | 29 59 |
| 5 49                       | 25 34 | 29 52 | 12 58 | 0Q12  |
| 6 14                       | 27 0  | 0Q57  | 13 35 | 0 25  |
| 6 42                       | 28134 | 2Q 4  | 14Q13 | 0Q39  |

| 23h 48m 0s      357° 0' 0" |       |       |       |       |      |
|----------------------------|-------|-------|-------|-------|------|
| 26 X 44                    |       |       |       |       |      |
| 11                         | 12    | ASC   | 2     | 3     | LAT. |
| 29T 3                      | 29513 | 27115 | 25S 3 | 24Q42 | 0    |
| 29 24                      | 0124  | 29 15 | 26 16 | 25 7  | 5    |
| 29 45                      | 1 38  | 1S16  | 27 28 | 25 31 | 10   |
| 0 8                        | 2 56  | 3 21  | 28 42 | 25 55 | 15   |
| 0 33                       | 4 20  | 5 32  | 29 56 | 26 20 | 20   |
| 0 38                       | 4 38  | 5 59  | 0Q12  | 26 25 | 21   |
| 0 44                       | 4 56  | 6 26  | 0 27  | 26 30 | 22   |
| 0 49                       | 5 14  | 6 54  | 0 43  | 26 36 | 23   |
| 0 54                       | 5 33  | 7 22  | 0 59  | 26 41 | 24   |
| 1 0                        | 5 52  | 7 50  | 1 15  | 26 46 | 25   |
| 1 6                        | 6 12  | 8 19  | 1 31  | 26 52 | 26   |
| 1 12                       | 6 32  | 8 48  | 1 47  | 26 57 | 27   |
| 1 18                       | 6 53  | 9 18  | 2 4   | 27 3  | 28   |
| 1 24                       | 7 14  | 9 48  | 2 20  | 27 8  | 29   |
| 1 30                       | 7 36  | 10 19 | 2 37  | 27 14 | 30   |
| 1 37                       | 7 58  | 10 50 | 2 54  | 27 20 | 31   |
| 1 44                       | 8 21  | 11 22 | 3 12  | 27 26 | 32   |
| 1 50                       | 8 44  | 11 54 | 3 30  | 27 32 | 33   |
| 1 58                       | 9 9   | 12 27 | 3 48  | 27 38 | 34   |
| 2 5                        | 9 34  | 13 0  | 4 6   | 27 44 | 35   |
| 2 12                       | 10 0  | 13 34 | 4 25  | 27 50 | 36   |
| 2 20                       | 10 26 | 14 9  | 4 44  | 27 57 | 37   |
| 2 28                       | 10 54 | 14 45 | 5 3   | 28 3  | 38   |
| 2 37                       | 11 23 | 15 21 | 5 23  | 28 10 | 39   |
| 2 45                       | 11 52 | 15 58 | 5 43  | 28 17 | 40   |
| 2 55                       | 12 23 | 16 36 | 6 4   | 28 24 | 41   |
| 3 4                        | 12 55 | 17 15 | 6 25  | 28 31 | 42   |
| 3 14                       | 13 29 | 17 55 | 6 47  | 28 39 | 43   |
| 3 24                       | 14 4  | 18 36 | 7 9   | 28 46 | 44   |
| 3 35                       | 14 40 | 19 18 | 7 32  | 28 54 | 45   |
| 3 46                       | 15 19 | 20 2  | 7 56  | 29 2  | 46   |
| 3 58                       | 15 59 | 20 46 | 8 20  | 29 10 | 47   |
| 4 10                       | 16 41 | 21 32 | 8 45  | 29 19 | 48   |
| 4 24                       | 17 25 | 22 18 | 9 10  | 29 28 | 49   |
| 4 37                       | 18 12 | 23 7  | 9 36  | 29 37 | 50   |
| 4 52                       | 19 2  | 23 56 | 10 3  | 29 46 | 51   |
| 5 8                        | 19 54 | 24 47 | 10 31 | 29 56 | 52   |
| 5 24                       | 20 50 | 25 40 | 11 0  | 0Q 6  | 53   |
| 5 42                       | 21 49 | 26 35 | 11 30 | 0 17  | 54   |
| 6 1                        | 22 52 | 27 31 | 12 1  | 0 28  | 55   |
| 6 21                       | 24 0  | 28 29 | 12 33 | 0 39  | 56   |
| 6 43                       | 25 13 | 29 29 | 13 7  | 0 51  | 57   |
| 7 7                        | 26 32 | 0Q31  | 13 41 | 1 4   | 58   |
| 7 33                       | 27 57 | 1 36  | 14 17 | 1 16  | 59   |
| 8 1                        | 29130 | 2Q42  | 14Q55 | 1Q30  | 60   |



our perception at the birth time at the place of birth. No sign is ever “missing”; often, a sign is seen “doubled up” with another.

We simply write the intercepted sign without a degree number outside the house where it should be. All thirty degrees of the intercepted sign are also there. Remember: the signs always follow one another in the order listed on page 32. *And the polarities of opposites among the signs never change either.*

That’s all there is to it! At certain extreme latitudes there can be more than one interception. But the procedure is always the same. Study the cusp diagram for example 2.

*Third Example.* Our third birth time correction gave us a corrected S.T. of 23–49–27 at San Fransisco, latitude 38 N. Look into your *Table of Houses* and find the closest S.T. which is 23H–48M–00S. Record on your work sheet the MC at 26 ♋ 44. Next go to latitude 38 and record the remaining cusp markings in the columns:

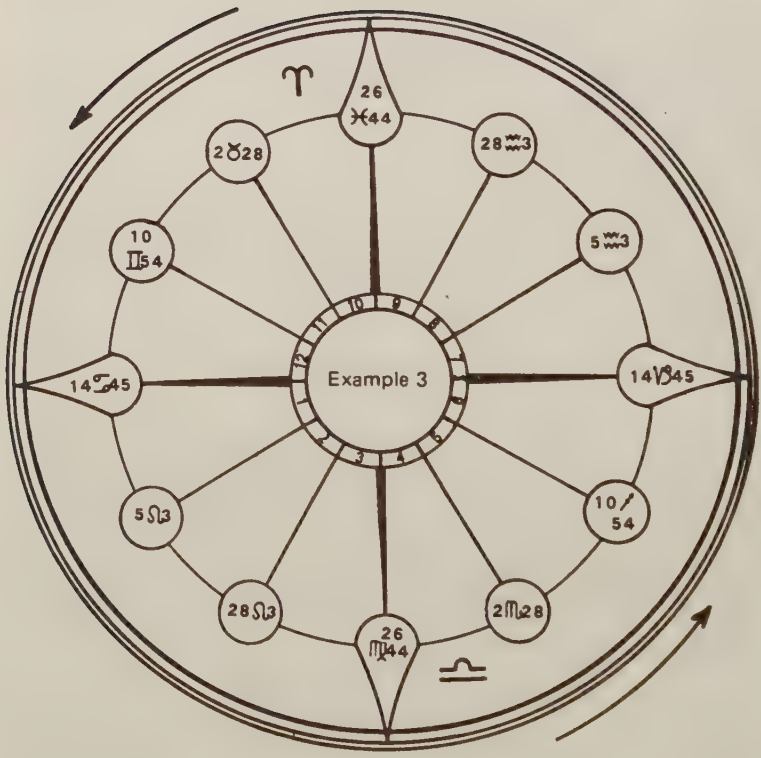
10. 26 ♋ 44    1. 14 ♉ 45

11. 2 ♌ 28    2. 5 ♋ 3

12. 10 ♍ 54    3. 28 ♌ 3

Note that in all cusp columns except the third *there are sign changes*. Reading *upwards* from our line to find the sign eliminates your overlooking such changes.

Again, we have an interception: Aries (♈) is



“missing” after Pisces ( ♋ ) on the tenth cusp and before Taurus ( ♉ ) on the eleventh cusp. And we know the sign opposite Aries (Libra) will be missing too. Aries and Libra are intercepted. Draw the cusp notations into the horoscope blank, and the situation works itself out easily.

The sidereal time is not used further in basic horoscope construction. The sidereal time determined the house cusps, and that’s that. The portrait now has its basic proportions and organization. The earliest indication of potential life-experience and attitudes is already there before you. A skilled astrologer, from the cusps alone, can deduce accurately a great deal about these sample horoscopes.

Now we must place the planets within the houses and *awaken* the areas of potential with the uniqueness of life. To do this easily, we should spend some more time with the calligraphy and symbol meanings of astrology. The symbols become easy to remember when we begin to understand what they represent.



## 4

# The Calligraphy

Throughout language, the most frequently used words and ideas are abbreviated for ease of use: television becomes “TV”; college students abbreviate their course names: “Social Science” becomes “Soc-Sci.” The chances are that your own first name is abbreviated most of the time.

With use and scope of application, abbreviations become symbols, and these symbols take on richly developed meanings. For example: in chemistry, *nitrolycerin* says one thing, but its chemical symbol  $C_3H_5(NO_3)_3$  says much more, universally. The symbol conveys the *composition* of nitrolycerin and its chemical *potentials*. The skull-and-crossed-bones means danger of all kinds. TNT says a lot more than Trinitrotoluene – at least to non-chemists.

In astrology, the meanings of the heavens and their organization in relation to man are enormous in scope. Abbreviations become necessary. But the symbology of these meanings, developed throughout history, offers an infinite scope of significance, brought to life within man and through the astrologer’s deductions. “The sun” says

little in comparison with the *symbol* for the sun: ☉, the circle of life and man within.

Every time we draw a symbol in astrology, we are showing a tremendous lore of meaning and a tremendous quantity of potential. In a very short time, the symbols take on an identity of their own; they become much more than awkward twists of the pencil. Easily, they become beautiful organizations of power and significance. Briefly now – and much more deeply later in this volume – let us look at the barest of these symbolic meanings. The symbols will start to come to life for you, and placing the planets in the horoscope will be much easier.

### *The Signs of the Zodiac*



Aries. March 21-April 19.

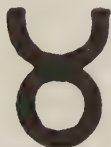
Aries is sometimes called “the Ram.” You can see the brow and nose of the ram in the symbol. Aries is connected with the forehead, sinuses, and nose of

man. More dynamically, as the First Sign of the Zodiac, beginning the sidereal year and spring, Aries means *thrust*. Two half-moons are joined to a powerful vertical line, the staff of power, a sceptre. This power is linked with the sun, from above to man below. Aries is ruled by Mars. The martial characteristics of this sign are not to be denied. There is a thrust of spirit, an aggressive drive connected with this symbol and sign.

There are many more symbolic meanings; they fill books old and new. The two half-moons divided here can



be read as male-female polarities, positive-negative; the sceptre administers the outpourings of these polarities from the inverted half-moons. The registration of impulse is quick and hot in this masculine sign. It can represent the pioneer.



Taurus. April 20-May 20.

Taurus is sometimes called “the Bull,” and the symbol looks like the head and horns of a bull. Taurus is connected with the throat and chin of man. We see the

half-moon symbol turned upward this time, receiving something. You can see there is something more stolid about this symbol. As with the bull, the symbol is at rest, until provoked. The Taurus influence is one of repose and settledness with the overtones of eruption and force. Like the bull’s pasture, the realm of Taurus is carefully structured and bounded. The receptivity of this sign rests in balance upon the circle of the sun, symbol of the life energy. The sign is “threatened” only when this balance is jarred.

One can go deeply into history with all the signs. For example, the sign of Taurus is connected with the bull-worship cultures in Crete and Egypt... even the golden calf in the *Bible*. The structuring dimension alludes to the architecture of the spirit, the aesthetic sense. Taurus is ruled by Venus. The connection that we will discover between Taurus and finance gives us expressions like “a bull market.” Other expressions surely come to your mind

as well: “bull-headed,” “taking the bull by the horns,” “stubborn as a bull,” “Bully!” and many more. The Sign of Taurus is feminine (the signs alternate in gender around the circle).



Gemini. May 21-June 20.

Gemini is sometimes called “the Twins.” Here we see two vertical lines, two staves or sceptres. The symbol shows the lungs and the arms.

Here we easily see parallel polarity, two lines of thought and activity. The symbol tells us of diversity, swiftness, perhaps indecision between two alternatives. Gemini is ruled by Mercury. Thought and the nervous system play very important roles in this symbol. There is little of the Aries thrust, little of the Taurus settledness. The symbol is “airy,” appears to travel quickly, seems to need more weight.

A phrase like “killing two birds with one stone” says much about the masculine sign, Gemini.

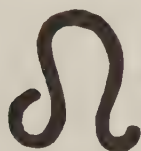


Cancer. June 21-July 23.

The symbol here is of a woman's breasts, symbolizing the mother instinct, nursing, feelings of home and security, the emotions. There is a kind of closed circuit here: the two half-moons (each joined to a small sun circle) pouring one into another. This can indicate the importance of the home, the self-contained life unit

between mother and child, wife and husband, nurse and patient.

Cancer is connected with the breasts, chest, and stomach of man. The sign is ruled by the Moon and has its many phases of emotional feelings. The giving nature can reveal a softness. The need for reciprocal emotion can reveal the clinging nature of a crab. Cancer is a feminine sign.

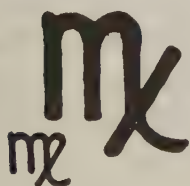


Leo. July 24-August 23.

Leo is ruled by the Sun. It is the sign of the king. Often one hears "Leo the Lion," and this reference certainly shows the pride of this fiery sign. Since it is the

dominion of the life-energy ruled by the Sun, the symbol shows the heart (with its two valves) and is connected with the heart of man. The king is the heart of his people.

The sun has been worshipped formally by man in history. In the act of living itself, we give constant recognition to the mighty sun. Leo reflects this sense of dominion within life, that is the heart of life. The way the planets are arranged within the masculine sign Leo and/or in relation to the Sun will show you how this energy is deployed.



Virgo. August 24-September 22.

The symbol(s) of Virgo in ancient times showed the harvest of virgin wheat, the scythe cutting down the stalks. The idea is conveyed of waiting for just the right

time to harvest. There is worried patience within Virgo, an anxiety about the ideal. It is ruled by Mercury and again introduces the critical faculties, the mental and nervous systems.

Virgo is related to the nervous system, the bowels and digestive tract, and diet in man. Because of the waiting and striving for the right time, the ideal situation, Virgo is connected with painstaking work and service, sometimes sickness therefrom. It is a feminine sign.



Libra. September 23-October 22.

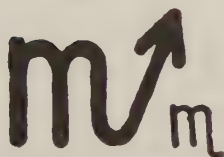
This symbol shows the setting sun. Half of it is seen; half is unseen. McCaffery in her *Graphic Astrology* describes this beautifully as representing the two halves of one unit, preeminently the symbol of partnership and marriage. And, since the halves are equal, Libra is said to be the sign of balance.

You can also see the symbol as man's belt line, around his waist and lower back. Libra represents the lower back and kidneys in man.

We have already seen that Libra is the sign opposite Aries. Aries is the first sign and Libra is the seventh. Aries is the beginning of the astrological year, the spring. Libra is the beginning of fall. We have here our first polarity in this brief explanation. Sun-rise is balanced by Sun-set. The individual drive and thrust of Aries is balanced by the more social orientation and peace need of Libra; the

individuality needs the social mirror. –You can begin to see these dimensions in the symbols.

Libra (as well as Taurus) is ruled by Venus, but Taurus in its organization would reflect rulership by Venus more aesthetically than Libra. Libra in its social “partnership” needs would reflect rulership by Venus more romantically. Libra is masculine.



Scorpio. October 23-November 21.

The symbol for Scorpio can be confused with the symbol for Virgo. The powerful “sting” of the scorpion’s tail is the main feature. (In printed references, as you have seen in the *Tables* and *Ephemeris*, the Scorpio calligraph is shown without this “tail”: ♏.) Scorpio always follows Libra. Virgo always precedes Libra.

Through ancient studies and through the fantasies of artists and writers, building meaning and philosophies upon these signs and symbols, three animals have been associated with this sign. They depict its three levels of symbolic meaning: the scorpion (which we see in the symbol), the eagle, and the dove.

The scorpion connotes potential emotional sting and raw passion; the eagle symbolizes soaring into high realms of mystery and enlightenment; the dove shows potential of spirit, in religion and rejuvenation.

Scorpio is the sign opposite Taurus and shares many of the same stolid, structured dimensions. It is ruled by

Mars (and Pluto) and indicates passion at one or all three of these levels. How this energy is assimilated and deployed in the horoscope, of course, is determined by planetary placement. Scorpio is related to the sexual organs in man and woman, the procreative and regenerating processes – from sex to psychoanalysis.

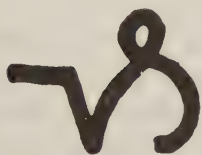


Sagittarius. November 22-December 21.

On the mental plane, this symbol shows the thrust of thought, the out-giving of ideas. New thoughts and opinions are vital forces symbolized by this sign. On the physical level, the calligraph relates to the thighs of man. The two thighs are fused into one line, showing the extreme focus of the higher-minded properties of this sign; the ability to stride far in journeys of the mind. The arch of the arrow's path can indicate the enthusiasm behind the thoughts, as well as the importance of the out-of-doors, exercise, sport. Travel is extremely important in this symbol.

Justice among all men, concepts of law are the ultimate meanings of this intellectual sign.

Sagittarius is ruled by Jupiter and is a masculine sign. The opposite sign is Gemini, and much of the mental emphasis is shared, but on different levels. As we will see in our expanded descriptions of the signs, Sagittarius is related to Aries and Leo in the "fire" family. It is easy to see the different *modes* of similar *inspiration* among these three signs.



Capricorn. December 22-January 20.

This symbol is perhaps the hardest to draw at first. See it as a knee-cap, and the organization of the lines will be clearer (the knee follows the thigh).

Capricorn is ruled by Saturn and is related to the knees in man. Capricorn is related to Taurus and Virgo in the "earth" family. The Taurean steadfastness, the Virgo critical and work ability combines with the Capricorn leadership, through reserve and patience or driving tyranny. There is a powerful austerity here linked to practicality and efficiency, like the hermit mountain-goat, alone on high, nimbly finding his way safely on dangerous paths. The placement of planets in the horoscope in relation to Capricorn (Taurus and Virgo) and Saturn will tell us how these dimensions of human nature and experience exhibit themselves in the individual.

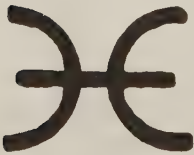


Aquarius. January 21-February 18.

Often, one hears of the "water bearer" from the constellation in which we formerly found Aquarius. But Aquarius has little or nothing to do with the symbol of water. What the "water bearer" is pouring out upon the world is a stream of new thoughts, innovation, inspiration. On the intellectual plane, the symbol shows these currents of inspiration poured upon man's horizon — his gift. The calligraph can also represent the rise and fall of man's ankles as he walks in life. Aquarius is related to

the calves and ankles in man.

Aquarius is the sign opposite the sun's sign Leo. The energy and "heart" of Leo have been taken as far away to others as possible. In this sense, we develop a humanitarian level of meaning for Aquarius. Aquarius is linked with Gemini and Libra in the "air" family. The emphasis on the intelligence and upon social balance are preserved in Aquarius and held securely. Aquarius is ruled by Saturn (and Uranus).



Pisces. February 19-March 20.

Here again we have two half-moons back to back joined by a horizon line of material security. Pisces seems to "receive" deeply through the two half-moon "antennae." The conscious and subconscious are vitally alive for a high cosmic awareness.

Pisces represents the two feet of man — his foundation.

Pisces is feminine and is ruled by Jupiter (and Neptune). Pisces is linked with Scorpio and Cancer in the "water" family. The deep emotional life is extremely important here in the symbol: two fishes swimming in opposite directions. Pisces is the last sign of the zodiac. The next sign is Aries, and the circle begins again.

Look closely at the difference between the calligraphs of Pisces and Aries: ♋♈. In Pisces, the Aries sceptre (the vertical line) has come to rest upon the horizon, man's domain; the half-moons have grown and frame man's



placement on Earth, feeding his receptivity emotionally, religiously, psychically. In Aries, man has the courage and spirit to begin; in Pisces, man has the disposition to assimilate what has already been done.

You can see how rich the symbols can become. As you learn these meanings more and more, you will want to draw the symbols as beautifully as you can. Drawing them large and dramatically will bring life into them for you and make your horoscopes much more easily readable later.

Keep your eyes open when you go to museums: you will begin to spot these symbols in art work of earlier centuries. Artists then used the symbols to say more in their paintings. You will even see variations in modern advertising, in dress designs. Man has always "used" the signs of the zodiac. *The signs contain all of man's potential experiences in life.*

Each of the calligraphs comes from a part of the body. Only in Virgo and Scorpio did we neglect this reference specifically. In Virgo and Scorpio the "M" part of the configuration represents the sex region in man's body; the diagonal slash at the base of the Virgo symbol may represent the virgin's hymen; the uplifted pronged appendage to the Scorpio symbol may represent the male penis. As the meanings are developed, this view of the symbols becomes quite clear. Think about them all.

Don't worry about memorizing the dates covered by each sign. Simply know that each sign covers a month, beginning around the twenty-first of one of our calendar

months and ending around the twentieth of the next calendar month. You will begin to feel their continuity with familiarity of their use in astrology.

When the sun comes into any one of the signs, the meaning of the sign is illuminated. The life energy expands the symbolism and applies it directly to man's self-expression. For example, we know that Capricorn begins around December 21, our first day of winter, the shortest days of the year. But as Capricorn begins, the light of day steadily begins to increase. Symbolically, this can mean the beginning enlightenment of man. Is it a coincidence that the birth celebrations of many religious leaders in history are held in Capricorn, including that of Jesus?


We have worked carefully with the time of birth to determine the placement of these signs of the zodiac around the individual's horoscope. The sun, man's life energy, will find its place somewhere among these twelve signs, somewhere in the horoscope, determined by our calculations of the time of birth. When someone *is* an Aries, that means his sun, at the moment of his birth, was located in the part of the zodiac, the map of the heavens, labeled "Aries." The symbology of the calligraph would be awakened.


The placement of the planets will modify this sun position and the "characteristics" positively or negatively in quantity and quality.


The potential use of these symbols and their


meanings is grand indeed. The responsibility falls upon the astrologer.


Here is a list of people born under the signs. These individuals have shown to the public so very much of their basic sign nature. With this chapter about calligraphy and chapter 7 that expands these observations, you will see immediately how relevant this short introduction to symbology has been.

*Aries:* Arturo Toscanini, conductor (March 23, 1867)  
  
 Harry Houdini, magician (April 6, 1874)  
 Charlie Chaplin, comedian (April 16, 1874)  
 Marlon Brando, actor (April 3, 1924)

*Taurus:* Sigmund Freud, psychoanalyst (May 6, 1856)  
  
 Harry Truman, statesman (May 8, 1884)  
 Salvador Dali, artist (May 11, 1904)  
 Joe Louis, boxer (May 13, 1914)

*Gemini:* Bob Hope, comedian (May 29, 1903)  
  
 John F. Kennedy, statesman (May 29, 1917)  
 Judy Garland, actress (June 10, 1922)

*Cancer:* Henry the VIII, statesman (June 28, 1491)  
  
 Rembrandt, artist (July 15, 1606)  
 Duke of Windsor (June 23, 1894)  
 Andrew Wyeth, artist (July 12, 1917)

*Leo:* Napoleon, statesman and soldier (August 15, 1769)  
  
 Henry Ford, industrialist (July 30, 1863)

Herbert Hoover, statesman (August 10, 1874)

Fidel Castro, statesman (August 13, 1927)

Jacqueline Kennedy Onassis (July 28, 1929)

Princess Anne of England (August 15, 1950)

*Virgo:*



Goethe, poet-philosopher (August 28, 1749)

Ingrid Bergman, actress (August 29, 1917)

Leonard Bernstein, musician (August 25, 1918)

*Libra:*



Eleanor Roosevelt, stateswoman (October 11, 1884)

Dwight D. Eisenhower, statesman (October 14, 1890)

Brigitte Bardot, actress (September 28, 1935)

Lee Harvey Oswald, murderer (October 18, 1939)

*Scorpio:*



Martin Luther, clergyman (November 10, 1483)

Pablo Picasso, artist (October 25, 1881)

Billy Graham, clergyman (November 7, 1918)

Charles Manson, murderer (November 12, 1934)

*Sagittarius:*



John Milton, poet (December 9, 1608)

Spinoza, philosopher (November 24, 1632)

Winston Churchill, statesman (November 30, 1874)

Noel Coward, dramatist (December 16, 1899)

William F. Buckley, Jr., columnist  
(November 24, 1925)

*Capricorn:* Woodrow Wilson, statesman (December 28,  
1856)



Mao Tse-Tung, statesman (December 26,  
1893)

Richard Nixon, statesman (January 9,  
1913)

Martin Luther King, clergyman (January  
15, 1929)

*Aquarius:* Charles Darwin, scientist (February 12,  
1809)



Abraham Lincoln, statesman (February 12,  
1809)

Thomas Edison, inventor (February 11,  
1847)

F. D. Roosevelt, statesman (January 30,  
1882)

*Pisces:* Michelangelo, artist (March 6, 1475)



Elizabeth Barrett Browning, poetess (March  
6, 1806)

Vaslav Nijinsky, dancer (February 28,  
1890)

Rudolf Nureyev, dancer (March 17, 1938)

We are already "talking astrology." Our short, bare explanations of the symbols of the signs are reflected easily in the public styles of life of these famous people. We also begin to see how the energies can be destroyed or perverted through planetary influences within the horoscope: Lee Harvey Oswald, for example, used the social mirror of Libra for a distorted individual need. This

is obvious from his full horoscope – and the reasons for the break-down. Charles Manson the mass murderer perverted the Scorpion legacy, sanctifying raw passion and murder with a cult religion.

Perhaps with Cancer, you will have some difficulty seeing the manifestations easily. But think of Henry the VIII's wife-problems, the problems in his "home," as it were; recall Rembrandt's warm emotion in the colors and subjects of his paintings; the Duke of Windsor gave up a throne (one "home") for a woman, following his emotions to a new "home." The American painter Andrew Wyeth is celebrated for his home-emotions, his nostalgia shown on canvas. When I underwent spine surgery a few years ago (and this was indicated in Libra in my horoscope!), 82% of all doctors, nurses, and attendants with whom I came in contact were Cancers. Uncanny!

We mentioned earlier about how important the *ascendant* is in every horoscope. So much more will be said about this later and in the next volumes of this series, but we can share a few examples now that will show how the ascendant and the sun-sign *blend*:

- Marilyn Monroe was a Gemini. The world knows of her indecisiveness. She was thought dumb, when, in actuality, her mind just went too fast in every direction. Her ascendant was Leo; she reigned, her hair was the color of sunlight – and we will see that Leo has much to do with theatricality, certainly one of the accoutrements of a queen.

- Richard Nixon, a Capricorn, has a Virgo ascendant. Combining the two describes the man very well.
- Eisenhower, a Libran, had an Aries ascendant. The martial beginnings of his career – and the difference in his military and statesman personalities – certainly begins to complete the picture of the symbols.
- Lyndon Johnson was a Virgo with a Leo ascendant: he was a powerful chief of state, a meticulous, patient politician. He died of a heart attack.

But we're getting ahead of ourselves! As we progress carefully with astrology, bringing the planets and *their* symbology to bear within the horoscope, this blending, the "synthesizing" will be our full-time concern soon enough. It is the art form of astrology – and the science.

Now we must use our pencils again and place the planets into the life-drama.

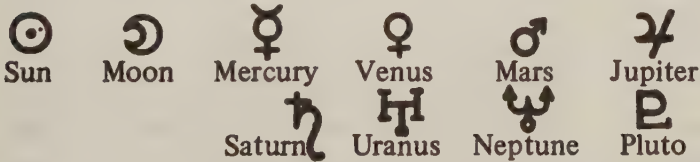




# 5

## Placing the Planets

Of course, there is symbology about the symbols of the planets. In fact, after constructing the horoscope, astrology becomes almost entirely synthesis among the symbolic meanings of the planets, signs, and houses. So, as you have studied and practiced drawing the signs of the zodiac, do the same with the planets. Learn to draw them neatly in this order, the order that the planets occur out from the sun:



Think of the Sun symbol as the circle of life with man (the dot) within. Think of Venus as a lady's hand-mirror (actually, the wholeness of life subordinating the cross of materialism). Mercury would be the symbol of Venus with a half-moon "receiving" above it — intelligence. Think of the Uranus symbol as an electrified

antenna or the monogram of Herschel who discovered Uranus on March 13, 1781. Pluto is also a monogram: for Percival Lowell, the planet's discoverer, January 21, 1930. The trident for Neptune is clear.

*Measuring planetary movement.* We know that our ephemeris records the position for the planets at *noon* at Greenwich. Each successive day shows a change of movement within a 24-hour period. A birth will occur at some time within that recorded period on a particular day. The astrologer must determine *how far the planet goes away from its noon position during the interval of time to the birth.* It is a simple problem of proportion. We do a subtraction, look into our tables, and do a simple addition. That's all! To compute all the positions of the planets corrected to the birth time will take you about 10 to 15 minutes after practice and familiarity. Often a photographer takes much longer to properly compose his picture!

Here is how we will be thinking: you can drive your car 30 miles through weekend traffic from city A to city B in one hour, 60 minutes. This you know. Today, you were making this same trip, and 20 minutes after you were gone, you came up with a fantastic new idea! Where were you, how far had you travelled when you had this brainstorm?

We know your car would go 30 miles in the whole time-unit of 60 minutes. Twenty minutes into the trip is 20/60 minutes or 1/3 of the way in time. One-third of the

way in miles is  $1/3 \times 30$  miles or 10 miles.

So simple. This is precisely what we do with the planets. We know that the sun will appear<sup>1</sup> to travel 60' (60 minutes "of arc") on a given day, within a 24-hour period, from 1° Aries 00' to 2° Aries 00', for example. (Note: there are always 60' in a degree.) A birth occurs at 8:00 PM in London, *eight hours after noon*. The sun will have advanced 8 hours of motion at the rate of 60' per 24-hour day. The fraction of time between noon and the birth-time is 8/24 of the day, in time *and* in motion. This is 1/3, of course. And 1/3 of 60' gives 20' of arc that the sun advances from noon to the birth-time. The birth was *after* noon, so we add this to the previous noon position: 1° Aries 00' + 20' = 1° Aries 20', the position of the sun *at the moment of birth*. Our work then will be to convert the birth-time to Greenwich time, compute the rate of motion in one noon-to-noon period (simple subtraction), use our tables for the answer of distance travelled, and add the increment to the earlier noon position (simple addition). We do this for each planet, and we are finished. The only difficulty is the *unfamiliarity with the terms*. Let us study this in detail.

*Greenwich Mean Time.* The first example we have used for our sidereal time correction was for a birth in

1. Of course, the sun does not "travel around" the Earth. It is the Earth's rotation on its own axis and progress in its orbit that create this apparent sun motion. But astrology works from the Earth in reference and, for ease of expression, attributes the motion to the sun.

New York City. We will use this example again. But first, let us take N.Y. time and convert it to Greenwich time. We know that New York City is 5 time zones west of Greenwich, England. Therefore, there is a difference of 5 hours in time. When it is 7:00 AM in New York City, it is noon in Greenwich – and 6:00 AM in Memphis – and 5:00 AM in Denver – and 4:00 AM in Reno, Nevada. The sun travels to the west, therefore its light comes upon the time zones east of wherever we are before it comes to us (think of the overhead position at noon; the Zenith). That is why clock time is earlier in the west and later in the east.

Think about it; find your own way to remember the simple principle that it is later “east” and earlier “west.” If you had to telephone someone in London right now, you would simply look at your watch and add five hours . . . if you were in the Eastern Time Zone. If you were on board a ship and in the middle of the Atlantic at  $45^\circ$  longitude west, you would add only three hours, three time zones ( $45^\circ$  divided by  $15^\circ$  – longitude  $45^\circ$  to  $30^\circ$  to  $15^\circ$  to  $00^\circ$  – or  $00^\circ$  to  $15^\circ$  to  $30^\circ$  to  $45^\circ$ ).

In our first example (page 10), we had birth data for March 23, 1950, at 6:30 PM, EST, in New York City, longitude  $74^\circ$  W. *What time was it in Greenwich at the moment of birth?* Six-thirty plus five hours: *11:30 PM, GMT, Greenwich Mean Time.* This means that the Sun, Moon, and planets would have advanced 11 hours and 30 minutes in motion from the preceding noon (on the birth day, March 23) recorded in our ephemeris. The new positions are the ones we want. Here’s how to find them.

## MARCH 1950

| Day   | Sid. Time | ☉        |
|-------|-----------|----------|
| 19 Su | 23 45 51  | 28 19 10 |
| 20 M  | 23 49 48  | 29 18 48 |
| 21 Tu | 23 53 44  | 0 18 24  |
| 22 W  | 23 57 41  | 1 17 59  |
| 23 Th | 0 1 37    | 2 17 31  |
| 24 F  | 0 5 34    | 3 17 0   |
| 25 Sa | 0 9 30    | 4 16 28  |

This portion from the Sun column listed on our March 1950 (American) ephemeris pages 12 and 13, shows that the Sun changed signs from Pisces to Aries on March 21 (30 degrees per sign, remember) and at *noon* on Thursday, March 23, our birth date, was located at 2°, 17' and

31" of Aries. Our birth example occurred after noon on this date and before noon on the following date, March 24. We must find how far the Sun went in that 24-hour period, i.e., how fast it was going, in order to find out where the Sun was at 11:30 PM, GMT, when our birth occurred. We simply subtract the noon position before our birth-time from the noon position after our birth time:

$$\begin{array}{r}
 3^{\circ} \ 17' \ 00'' \quad (2 \quad 76 \quad 60) \\
 -2^{\circ} \ 17' \ 31'' \\
 \hline
 59' \ 29''
 \end{array}$$

We must borrow 1 minute from the 17 minutes and add the 1 minute (60 seconds) to the 00 seconds in order to subtract 31 seconds. We must also borrow 1 degree from the 3 degrees, and add the 1 degree (60 minutes) to the 17 minutes which became 16 minutes when we borrowed from here originally.

Our answer is 59' 29", the distance the Sun went in the *twenty-four hour* period noon-to-noon covering our birth-time. Now we must find out where the Sun was at the moment of our birth-time, 11:30 PM, GMT, eleven hours and thirty minutes after the noon position 2° 17' 31". We look it up in our *Tables of Diurnal Planetary Motion as follows.*

Table V Diurnal Motion of the Sun

| TIME<br>MINUTES | 24 HOUR TRAVEL |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
|-----------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                 | 59 12          | 59 14 | 59 16 | 59 18 | 59 20 | 59 22 | 59 24 | 59 26 | 59 28 | 59 30 | 59 32 | 59 34 | 59 36 | 59 38 | 59 40 | 59 42 | 59 44 | 59 46 | 59 48 | 59 50 |      |
| 1               | 2              | 5     | 8     | 10    | 12    | 15    | 18    | 21    | 24    | 27    | 30    | 33    | 36    | 39    | 42    | 45    | 48    | 51    | 54    | 57    | 60   |
| 2               | 5              | 8     | 10    | 12    | 15    | 18    | 21    | 24    | 27    | 30    | 33    | 36    | 39    | 42    | 45    | 48    | 51    | 54    | 57    | 60    | 63   |
| 3               | 7              | 10    | 12    | 15    | 18    | 21    | 24    | 27    | 30    | 33    | 36    | 39    | 42    | 45    | 48    | 51    | 54    | 57    | 60    | 63    | 66   |
| 4               | 10             | 12    | 15    | 18    | 21    | 24    | 27    | 30    | 33    | 36    | 39    | 42    | 45    | 48    | 51    | 54    | 57    | 60    | 63    | 66    | 69   |
| 5               | 13             | 15    | 18    | 21    | 24    | 27    | 30    | 33    | 36    | 39    | 42    | 45    | 48    | 51    | 54    | 57    | 60    | 63    | 66    | 69    | 72   |
| 6               | 17             | 19    | 22    | 25    | 28    | 31    | 34    | 37    | 40    | 43    | 46    | 49    | 52    | 55    | 58    | 61    | 64    | 67    | 70    | 73    | 76   |
| 7               | 20             | 22    | 25    | 28    | 31    | 34    | 37    | 40    | 43    | 46    | 49    | 52    | 55    | 58    | 61    | 64    | 67    | 70    | 73    | 76    | 79   |
| 8               | 23             | 25    | 28    | 31    | 34    | 37    | 40    | 43    | 46    | 49    | 52    | 55    | 58    | 61    | 64    | 67    | 70    | 73    | 76    | 79    | 82   |
| 9               | 26             | 28    | 31    | 34    | 37    | 40    | 43    | 46    | 49    | 52    | 55    | 58    | 61    | 64    | 67    | 70    | 73    | 76    | 79    | 82    | 85   |
| 10              | 29             | 31    | 34    | 37    | 40    | 43    | 46    | 49    | 52    | 55    | 58    | 61    | 64    | 67    | 70    | 73    | 76    | 79    | 82    | 85    | 88   |
| 11              | 30             | 32    | 35    | 38    | 41    | 44    | 47    | 50    | 53    | 56    | 59    | 62    | 65    | 68    | 71    | 74    | 77    | 80    | 83    | 86    | 89   |
| 12              | 30             | 32    | 35    | 38    | 41    | 44    | 47    | 50    | 53    | 56    | 59    | 62    | 65    | 68    | 71    | 74    | 77    | 80    | 83    | 86    | 89   |
| 13              | 32             | 34    | 37    | 40    | 43    | 46    | 49    | 52    | 55    | 58    | 61    | 64    | 67    | 70    | 73    | 76    | 79    | 82    | 85    | 88    | 91   |
| 14              | 35             | 37    | 40    | 43    | 46    | 49    | 52    | 55    | 58    | 61    | 64    | 67    | 70    | 73    | 76    | 79    | 82    | 85    | 88    | 91    | 94   |
| 15              | 37             | 39    | 42    | 45    | 48    | 51    | 54    | 57    | 60    | 63    | 66    | 69    | 72    | 75    | 78    | 81    | 84    | 87    | 90    | 93    | 96   |
| 16              | 39             | 40    | 42    | 45    | 48    | 51    | 54    | 57    | 60    | 63    | 66    | 69    | 72    | 75    | 78    | 81    | 84    | 87    | 90    | 93    | 96   |
| 17              | 42             | 44    | 46    | 49    | 52    | 55    | 58    | 61    | 64    | 67    | 70    | 73    | 76    | 79    | 82    | 85    | 88    | 91    | 94    | 97    | 100  |
| 18              | 44             | 47    | 49    | 52    | 55    | 58    | 61    | 64    | 67    | 70    | 73    | 76    | 79    | 82    | 85    | 88    | 91    | 94    | 97    | 100   | 103  |
| 19              | 47             | 49    | 52    | 55    | 58    | 61    | 64    | 67    | 70    | 73    | 76    | 79    | 82    | 85    | 88    | 91    | 94    | 97    | 100   | 103   | 106  |
| 20              | 49             | 52    | 54    | 57    | 60    | 63    | 66    | 69    | 72    | 75    | 78    | 81    | 84    | 87    | 90    | 93    | 96    | 99    | 102   | 105   | 108  |
| 21              | 52             | 54    | 57    | 60    | 63    | 66    | 69    | 72    | 75    | 78    | 81    | 84    | 87    | 90    | 93    | 96    | 99    | 102   | 105   | 108   | 111  |
| 22              | 54             | 57    | 59    | 62    | 65    | 68    | 71    | 74    | 77    | 80    | 83    | 86    | 89    | 92    | 95    | 98    | 101   | 104   | 107   | 110   | 113  |
| 23              | 57             | 59    | 62    | 65    | 68    | 71    | 74    | 77    | 80    | 83    | 86    | 89    | 92    | 95    | 98    | 101   | 104   | 107   | 110   | 113   | 116  |
| 24              | 59             | 62    | 64    | 67    | 70    | 73    | 76    | 79    | 82    | 85    | 88    | 91    | 94    | 97    | 100   | 103   | 106   | 109   | 112   | 115   | 118  |
| 25              | 1 2            | 1 2   | 1 4   | 1 5   | 1 7   | 1 9   | 1 10  | 1 12  | 1 14  | 1 16  | 1 18  | 1 20  | 1 22  | 1 24  | 1 26  | 1 28  | 1 30  | 1 32  | 1 34  | 1 36  | 1 38 |
| 26              | 1 4            | 1 4   | 1 7   | 1 8   | 1 10  | 1 12  | 1 14  | 1 16  | 1 18  | 1 20  | 1 22  | 1 24  | 1 26  | 1 28  | 1 30  | 1 32  | 1 34  | 1 36  | 1 38  | 1 40  | 1 42 |
| 27              | 1 7            | 1 7   | 1 10  | 1 11  | 1 13  | 1 15  | 1 17  | 1 19  | 1 21  | 1 23  | 1 25  | 1 27  | 1 29  | 1 31  | 1 33  | 1 35  | 1 37  | 1 39  | 1 41  | 1 43  | 1 45 |
| 28              | 1 9            | 1 10  | 1 13  | 1 14  | 1 16  | 1 18  | 1 20  | 1 22  | 1 24  | 1 26  | 1 28  | 1 30  | 1 32  | 1 34  | 1 36  | 1 38  | 1 40  | 1 42  | 1 44  | 1 46  | 1 48 |
| 29              | 1 12           | 1 12  | 1 15  | 1 16  | 1 18  | 1 20  | 1 22  | 1 24  | 1 26  | 1 28  | 1 30  | 1 32  | 1 34  | 1 36  | 1 38  | 1 40  | 1 42  | 1 44  | 1 46  | 1 48  | 1 50 |
| 30              | 1 14           | 1 14  | 1 17  | 1 18  | 1 20  | 1 22  | 1 24  | 1 26  | 1 28  | 1 30  | 1 32  | 1 34  | 1 36  | 1 38  | 1 40  | 1 42  | 1 44  | 1 46  | 1 48  | 1 50  | 1 52 |
| 31              | 1 16           | 1 17  | 1 19  | 1 20  | 1 22  | 1 24  | 1 26  | 1 28  | 1 30  | 1 32  | 1 34  | 1 36  | 1 38  | 1 40  | 1 42  | 1 44  | 1 46  | 1 48  | 1 50  | 1 52  | 1 54 |
| 32              | 1 19           | 1 19  | 1 22  | 1 23  | 1 25  | 1 27  | 1 29  | 1 31  | 1 33  | 1 35  | 1 37  | 1 39  | 1 41  | 1 43  | 1 45  | 1 47  | 1 49  | 1 51  | 1 53  | 1 55  | 1 57 |
| 33              | 1 21           | 1 21  | 1 24  | 1 25  | 1 27  | 1 29  | 1 31  | 1 33  | 1 35  | 1 37  | 1 39  | 1 41  | 1 43  | 1 45  | 1 47  | 1 49  | 1 51  | 1 53  | 1 55  | 1 57  | 1 59 |
| 34              | 1 24           | 1 24  | 1 27  | 1 28  | 1 30  | 1 32  | 1 34  | 1 36  | 1 38  | 1 40  | 1 42  | 1 44  | 1 46  | 1 48  | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 1 60  | 1 62 |
| 35              | 1 26           | 1 26  | 1 29  | 1 30  | 1 32  | 1 34  | 1 36  | 1 38  | 1 40  | 1 42  | 1 44  | 1 46  | 1 48  | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 1 60  | 1 62  | 1 64 |
| 36              | 1 29           | 1 29  | 1 32  | 1 33  | 1 35  | 1 37  | 1 39  | 1 41  | 1 43  | 1 45  | 1 47  | 1 49  | 1 51  | 1 53  | 1 55  | 1 57  | 1 59  | 1 61  | 1 63  | 1 65  | 1 67 |
| 37              | 1 31           | 1 31  | 1 34  | 1 35  | 1 37  | 1 39  | 1 41  | 1 43  | 1 45  | 1 47  | 1 49  | 1 51  | 1 53  | 1 55  | 1 57  | 1 59  | 1 61  | 1 63  | 1 65  | 1 67  | 1 69 |
| 38              | 1 34           | 1 34  | 1 37  | 1 38  | 1 40  | 1 42  | 1 44  | 1 46  | 1 48  | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 1 60  | 1 62  | 1 64  | 1 66  | 1 68  | 1 70  | 1 72 |
| 39              | 1 36           | 1 36  | 1 39  | 1 40  | 1 42  | 1 44  | 1 46  | 1 48  | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 1 60  | 1 62  | 1 64  | 1 66  | 1 68  | 1 70  | 1 72  | 1 74 |
| 40              | 1 39           | 1 39  | 1 42  | 1 43  | 1 45  | 1 47  | 1 49  | 1 51  | 1 53  | 1 55  | 1 57  | 1 59  | 1 61  | 1 63  | 1 65  | 1 67  | 1 69  | 1 71  | 1 73  | 1 75  | 1 77 |



The book is divided into several tables. Table V is only for the Sun; Table VI is for the Moon and Table VII for all the planets. *Our key is always the distance travelled in one day.* In this case, the key is 59' 29".

At the top of the pages in this book is written '24-Hour Travel.' We find our rate, 59' 29" (pages 70, 71). Note throughout the top  $\frac{3}{4}$  of the page, minutes of time are listed in the left margin, 1 to 60. In the lower  $\frac{1}{4}$  page, the hours are listed 1 to 24. Go to the column marked with the key 59' 30" (round up 1 second) to the line "11 Hours." Read carefully: 27' 16". Mark it on your work sheet. Go to the minutes page at the left, down the column marked with the key 59' 30" to the line "30 minutes." Read carefully: 1' 14". Mark it on your work sheet.

Add the two numbers:

$$\begin{array}{r} 27' 16'' \text{ (distance gone in 11 hours)} \\ + 1' 14'' \text{ (distance gone in 30 minutes)} \\ \hline 28' 30'' \text{ Distance gone in 11:30} \end{array}$$

The Sun travelled 29' 30" of arc in 11 hours and 30 minutes on March 23, 1950. Now add this to the Sun's position at noon on March 23, and you will have the final position of the Sun at the moment of birth:

$$\begin{array}{r} +2^{\circ} \text{ } \Upsilon \text{ } 17' 31'' \text{ (noon position,} \\ \text{March 23)} \\ + \quad 28' 30'' \text{ (motion in 11 hours} \\ \hline \text{and 30 minutes)} \\ 2^{\circ} \text{ } \Upsilon \text{ } 46' 01'' \text{ Corrected position of} \\ \text{the Sun} \end{array}$$



That's the whole process. We've used almost 500 words to explain it as completely as we can, yet, with some practice, it will take you about 45 seconds to do—with lots of practice maybe 10 seconds, doing the computation in your head!

Now let's use the same method to find the exact positions of the Moon at the moment of our birth example. The Moon's measurement is extremely important because of the symbology of the Moon in interpretation and its speed. The Moon's motion varies from just under 12 degrees to just over 15 degrees *per day*. For greater accuracy, we will be using the *12 hour* motion of the Moon. In the *American Ephemeris*, the Moon's position is first given for the 0 hr. (midnight) and then the noon position. In our example, we want the positions that will encompass our GMT of 11:30 PM, so we take the *noon* position on March 23 ( $25^{\circ} \text{♉} 19' 51''$ ) and subtract it from the *0 hour* position on March 24.

## MARCH 1950

| Day   | Sid. Time | ☉         | 0 hr ☽    | ☽         |
|-------|-----------|-----------|-----------|-----------|
| 19 Su | 23 45 51  | 28 19 10  | 1 ♄ 50 35 | 7 ♃ 52 32 |
| 20 M  | 23 49 48  | 29 18 48  | 13 52 26  | 19 50 33  |
| 21 Tu | 23 53 44  | 0 ♃ 18 24 | 25 47 10  | 1 ♃ 42 35 |
| 22 W  | 23 57 41  | 1 ♀ 17 59 | 7 ♃ 37 10 | 13 31 17  |
| 23 Th | 0 1 37    | 2 ♀ 17 31 | 19 25 22  | 25 19 51  |
| 24 F  | 0 5 34    | 3 ♀ 17 0  | 1 ♀ 15 12 | 7 ♀ 11 58 |
| 25 Sa | 0 9 30    | 4 ♀ 16 28 | 13 10 38  | 19 11 48  |

$$\begin{array}{r}
 1^{\circ} \text{ Gemini } 15' 12'' \\
 -25^{\circ} \text{ Taurus } 19' 51'' \\
 \hline
 \end{array}$$

!

This looks unsolvable, but it is very easy: *each sign has 30 degrees always. Beyond 30 degrees, the planet moves into the next sign.* The signs always follow one another in the same order (there will never be any problem here). The Moon in our example has gone from  $25^{\circ}$  Taurus 20' on March 23 *into Gemini* to  $1^{\circ} 15'$  at midnight on March 24. This is over a degree *beyond* the end of Taurus. To make the

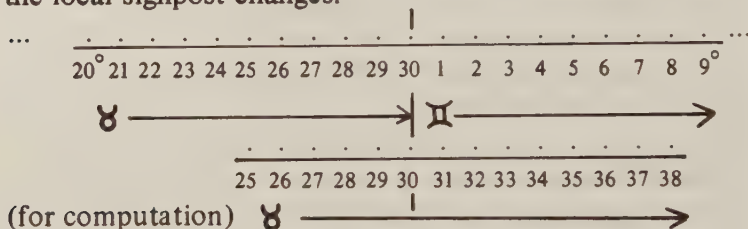


# Placing the Planets

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|    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| 41 | 20 13 | 20 16 | 20 20 | 20 23 | 20 27 | 20 30 | 20 33 | 20 37 | 20 40 | 20 44 | 20 47 | 20 50 | 20 54 | 20 57 | 21 1  | 41 |
| 42 | 20 42 | 20 46 | 20 49 | 20 53 | 20 56 | 21 0  | 21 4  | 21 7  | 21 11 | 21 14 | 21 18 | 21 21 | 21 24 | 21 28 | 21 31 | 42 |
| 43 | 21 12 | 21 16 | 21 19 | 21 23 | 21 26 | 21 30 | 21 34 | 21 37 | 21 41 | 21 44 | 21 48 | 21 52 | 21 55 | 21 59 | 22 2  | 43 |
| 44 | 21 42 | 21 45 | 21 49 | 21 53 | 21 56 | 22 0  | 22 4  | 22 7  | 22 11 | 22 14 | 22 18 | 22 22 | 22 26 | 22 29 | 22 33 | 44 |
| 45 | 22 11 | 22 15 | 22 19 | 22 23 | 22 26 | 22 30 | 22 34 | 22 38 | 22 41 | 22 45 | 22 49 | 23 3  | 23 6  | 23 0  | 23 4  | 45 |
| 46 | 22 41 | 22 45 | 22 49 | 22 52 | 22 56 | 23 0  | 23 4  | 23 8  | 23 12 | 23 15 | 23 19 | 23 23 | 23 27 | 23 31 | 23 36 | 46 |
| 47 | 23 10 | 23 14 | 23 18 | 23 22 | 23 26 | 23 30 | 23 34 | 23 38 | 23 42 | 23 46 | 23 50 | 23 53 | 23 57 | 24 1  | 24 5  | 47 |
| 48 | 23 40 | 23 44 | 23 48 | 23 52 | 23 56 | 24 0  | 24 4  | 24 8  | 24 12 | 24 16 | 24 20 | 24 24 | 24 28 | 24 32 | 24 36 | 48 |
| 49 | 24 10 | 24 14 | 24 18 | 24 22 | 24 26 | 24 30 | 24 34 | 24 38 | 24 42 | 24 46 | 24 50 | 24 54 | 24 58 | 25 2  | 25 6  | 49 |
| 50 | 24 39 | 24 43 | 24 47 | 24 52 | 24 56 | 25 0  | 25 4  | 25 8  | 25 12 | 25 17 | 25 21 | 25 25 | 25 29 | 25 33 | 25 37 | 50 |
| 51 | 25 9  | 25 13 | 25 17 | 25 22 | 25 26 | 25 30 | 25 34 | 25 38 | 25 43 | 25 47 | 25 51 | 25 56 | 26 0  | 26 4  | 26 8  | 51 |
| 52 | 25 38 | 25 43 | 25 47 | 25 51 | 25 56 | 26 0  | 26 4  | 26 9  | 26 13 | 26 17 | 26 22 | 26 26 | 26 30 | 26 34 | 26 39 | 52 |
| 53 | 26 8  | 26 12 | 26 17 | 26 21 | 26 26 | 26 30 | 26 34 | 26 39 | 26 43 | 26 48 | 26 52 | 26 57 | 27 1  | 27 5  | 27 10 | 53 |
| 54 | 26 38 | 26 42 | 26 46 | 26 51 | 26 56 | 27 0  | 27 4  | 27 9  | 27 13 | 27 18 | 27 23 | 27 27 | 27 31 | 27 35 | 27 41 | 54 |
| 55 | 27 7  | 27 12 | 27 16 | 27 21 | 27 25 | 27 30 | 27 35 | 27 39 | 27 44 | 27 48 | 27 53 | 27 57 | 28 2  | 28 7  | 28 11 | 55 |
| 56 | 27 37 | 27 41 | 27 46 | 27 51 | 27 55 | 28 0  | 28 5  | 28 9  | 28 14 | 28 19 | 28 23 | 28 28 | 28 33 | 28 37 | 28 42 | 56 |
| 57 | 28 6  | 28 11 | 28 16 | 28 20 | 28 25 | 28 30 | 28 35 | 28 39 | 28 44 | 28 49 | 28 54 | 28 58 | 29 3  | 29 8  | 29 13 | 57 |
| 58 | 28 36 | 28 41 | 28 45 | 28 50 | 28 55 | 29 0  | 29 5  | 29 10 | 29 15 | 29 19 | 29 24 | 29 29 | 29 34 | 29 39 | 29 44 | 58 |
| 59 | 29 3  | 29 10 | 29 18 | 29 20 | 29 25 | 29 30 | 29 35 | 29 40 | 29 45 | 29 50 | 29 55 | 30 0  | 30 4  | 30 9  | 30 14 | 59 |
| 60 | 29 35 | 29 40 | 29 45 | 29 50 | 29 55 | 30 0  | 30 5  | 30 10 | 30 15 | 30 20 | 30 25 | 30 30 | 30 35 | 30 40 | 30 45 | 60 |
| 61 | 29 35 | 29 40 | 29 45 | 29 50 | 29 55 | 30 0  | 30 5  | 30 10 | 30 15 | 30 20 | 30 25 | 30 30 | 30 35 | 30 40 | 30 45 | 61 |
| 62 | 59 10 | 59 20 | 59 30 | 59 40 | 59 50 | 60 0  | 1 0   | 1 10  | 1 20  | 1 30  | 1 40  | 1 50  | 1 10  | 1 20  | 1 30  | 62 |
| 63 | 1 25  | 1 30  | 1 35  | 1 40  | 1 45  | 1 50  | 1 55  | 2 0   | 2 5   | 2 10  | 2 15  | 2 20  | 2 25  | 2 30  | 2 35  | 63 |
| 64 | 2 27  | 2 33  | 2 39  | 2 45  | 2 51  | 2 57  | 3 0   | 3 6   | 3 12  | 3 18  | 3 24  | 3 30  | 3 36  | 3 42  | 3 48  | 64 |
| 65 | 3 57  | 3 59  | 4 0   | 4 1   | 4 2   | 4 3   | 4 4   | 4 5   | 4 6   | 4 7   | 4 8   | 4 9   | 4 10  | 4 11  | 4 12  | 65 |
| 66 | 3 27  | 3 30  | 3 33  | 3 37  | 3 40  | 3 43  | 3 47  | 3 50  | 3 54  | 3 57  | 4 0   | 4 3   | 4 6   | 4 9   | 4 12  | 66 |
| 67 | 3 27  | 3 30  | 3 33  | 3 37  | 3 40  | 3 43  | 3 47  | 3 50  | 3 54  | 3 57  | 4 0   | 4 3   | 4 6   | 4 9   | 4 12  | 67 |
| 68 | 3 56  | 4 0   | 4 3   | 4 7   | 4 10  | 4 14  | 4 18  | 4 22  | 4 26  | 4 30  | 4 34  | 4 38  | 4 42  | 4 46  | 4 50  | 68 |
| 69 | 4 26  | 4 15  | 4 27  | 4 4   | 4 11  | 4 18  | 4 25  | 4 32  | 4 39  | 4 46  | 4 53  | 5 0   | 5 7   | 5 14  | 5 21  | 69 |
| 70 | 4 55  | 5 0   | 5 5   | 6 0   | 6 5   | 7 0   | 7 5   | 8 0   | 8 5   | 9 0   | 9 5   | 10 0  | 10 5  | 11 0  | 11 5  | 70 |
| 71 | 5 25  | 5 26  | 5 27  | 5 28  | 5 29  | 5 30  | 5 31  | 5 32  | 5 33  | 5 34  | 5 35  | 5 36  | 5 37  | 5 38  | 5 39  | 71 |
| 72 | 5 55  | 5 56  | 5 57  | 5 58  | 5 59  | 6 0   | 6 1   | 6 2   | 6 3   | 6 4   | 6 5   | 6 6   | 6 7   | 6 8   | 6 9   | 72 |

subtraction possible, we can rewrite  $1^\circ$  Gemini  $15'$  as  $31^\circ$  Taurus  $15'$ . Think about it. The degrees are continuous; only the local signpost changes.



$$\text{So, we have } \begin{array}{r} 31^\circ \text{ Gemini } 15' 12'' \\ -25^\circ \text{ Taurus } 19' 51'' \\ \hline \end{array} \quad \text{or} \quad \begin{array}{r} 31 \ 15' 12'' \\ -25 \ 19' 51'' \\ \hline \end{array}$$

or

$$\begin{array}{r} 30^\circ \text{ Gemini } 74' \text{ (borrow 1 making 75) } 72'' \\ -25^\circ \text{ Taurus } 19' \qquad \qquad \qquad 51'' \\ \hline 5^\circ \qquad \qquad 55' \qquad \qquad \qquad 21'' \end{array}$$

We had to borrow  $1^\circ$  from  $31^\circ$  to add to the  $15'$  and then borrow  $1'$  from the  $75'$  to make  $72''$ . Remember, this  $5^\circ 55'$  is simply the degrees in *motion*; signs are not involved directly in this distance measurement.

Turn to Table VI and find the  $5^\circ 55'$  heading (pages 74-75). Record the proper numbers for motion in 11 hours and in 30 minutes:

$$\begin{array}{r} 5^\circ 25' 25'' \text{ (11 H)} \\ \hline 14' 47'' \text{ (30 M)} \\ \hline 5^\circ 39' 72'' \\ 5^\circ 40' 12'' \end{array}$$

distance to the Moon's noon position *before* the birth:

$$\begin{array}{r}
 25^{\circ} \text{ Taurus } 19' 51'' \\
 + 5^{\circ} \quad 40' 12'' \\
 \hline
 30^{\circ} \quad 59' 63'' \\
 31^{\circ} \text{ Taurus } 00' 03''
 \end{array}$$

This  $31^{\circ}$  is impossible in Taurus or any other sign. We know it must be 1 degree into the next sign, Gemini. Our answer is  $1^{\circ} \text{ Gemini } 00' 03''$ , the position of the Moon at the moment of birth—a very easy computation with a bit of practice.

Now let's use the same method to find the exact positions of the *planets* at the moment of our birth example. How far has Mercury gone in 24 hours?—then, in 11 hours and 30 minutes? (The Mercury column in the ephemeris is the second column to the right of the Moon.) We do our subtraction:

**MARCH**

| Day   | ☾        |
|-------|----------|
| 19 Su | 20 9.0   |
| 20 M  | 22 1.0   |
| 21 Tu | 23 54.2  |
| 22 W  | 25 48.6  |
| 23 Th | 27 44.3  |
| 24 F  | 29 41.1  |
| 25 Sa | 1 T 39.0 |

$$\begin{array}{r}
 29^{\circ} \text{ } \text{ } 41' .1 \text{ (borrow } 1^{\circ} \text{ for the ' column)} \\
 -27^{\circ} \quad 44' .3 \text{ and round off the seconds)} \\
 \hline
 1^{\circ} \quad 57' \quad 24\text{-hour motion key}
 \end{array}$$

Turn to Table VII, pages 78-79, read down the key column to 11 hours and record 53' 38".

Read down key column at the top of the page and record 2' 26". Add both: 55' 64".

Convert 64" to 1' 04". Adjust the sum: 56' 04", the distance Mercury went in 11 hours and 30 minutes. Add this sum to the position of Mercury on the birth date:

$$\begin{array}{r}
 27^{\circ} \text{ } \text{ } 44' \\
 + \quad 56' 04'' \\
 \hline
 27^{\circ} \text{ } \text{ } 101' 04'' \text{ (adjust } 101 \text{ to } 1^{\circ} 41') \\
 28^{\circ} \text{ } \text{ } 41' \text{ (round off seconds with the planets)}
 \end{array}$$

Table VII Diurnal Motion of the Planets

| TIME | 24 HOUR TRAVEL |        |        |        |        |        |        |        |        |        |        |        |        |        |       |      | TIME |
|------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|------|
|      | 1° 46'         | 1° 47' | 1° 48' | 1° 49' | 1° 50' | 1° 51' | 1° 52' | 1° 53' | 1° 54' | 1° 55' | 1° 56' | 1° 57' | 1° 58' | 1° 59' | 2° 0' |      |      |
| 1    | 0 4            | 0 4    | 0 4    | 0 5    | 0 5    | 0 5    | 0 5    | 0 5    | 0 5    | 0 5    | 0 5    | 0 5    | 0 5    | 0 5    | 0 5   | 0 5  |      |
| 2    | 0 9            | 0 9    | 0 9    | 0 9    | 0 9    | 0 9    | 0 9    | 0 9    | 0 9    | 0 9    | 0 9    | 0 9    | 0 9    | 0 9    | 0 9   | 0 9  |      |
| 3    | 0 13           | 0 13   | 0 13   | 0 14   | 0 14   | 0 14   | 0 14   | 0 14   | 0 14   | 0 14   | 0 15   | 0 15   | 0 15   | 0 15   | 0 15  | 0 15 |      |
| 4    | 0 18           | 0 18   | 0 18   | 0 18   | 0 18   | 0 18   | 0 19   | 0 19   | 0 19   | 0 19   | 0 19   | 0 20   | 0 20   | 0 20   | 0 20  | 0 20 |      |
| 5    | 0 22           | 0 22   | 0 23   | 0 23   | 0 23   | 0 23   | 0 23   | 0 24   | 0 24   | 0 24   | 0 24   | 0 24   | 0 25   | 0 25   | 0 25  | 0 25 |      |
| 6    | 0 27           | 0 27   | 0 27   | 0 27   | 0 28   | 0 28   | 0 28   | 0 28   | 0 29   | 0 29   | 0 29   | 0 29   | 0 30   | 0 30   | 0 30  | 0 30 |      |
| 7    | 0 31           | 0 31   | 0 32   | 0 32   | 0 32   | 0 33   | 0 33   | 0 33   | 0 33   | 0 34   | 0 34   | 0 34   | 0 34   | 0 35   | 0 35  | 0 35 |      |
| 8    | 0 35           | 0 36   | 0 36   | 0 36   | 0 37   | 0 37   | 0 37   | 0 38   | 0 38   | 0 38   | 0 39   | 0 39   | 0 39   | 0 40   | 0 40  | 0 40 |      |
| 9    | 0 40           | 0 40   | 0 41   | 0 41   | 0 41   | 0 42   | 0 42   | 0 42   | 0 43   | 0 43   | 0 44   | 0 44   | 0 44   | 0 45   | 0 45  | 0 45 |      |
| 10   | 0 44           | 0 45   | 0 45   | 0 46   | 0 46   | 0 46   | 0 47   | 0 47   | 0 48   | 0 48   | 0 48   | 0 49   | 0 49   | 0 50   | 0 50  | 0 50 |      |
| 11   | 0 49           | 0 49   | 0 50   | 0 50   | 0 50   | 0 51   | 0 51   | 0 52   | 0 52   | 0 53   | 0 53   | 0 54   | 0 54   | 0 55   | 0 55  | 0 55 |      |
| 12   | 0 53           | 0 54   | 0 54   | 0 55   | 0 55   | 0 56   | 0 56   | 0 57   | 0 57   | 0 58   | 0 58   | 0 59   | 0 59   | 1 0    | 1 0   | 1 0  |      |
| 13   | 0 57           | 0 58   | 0 59   | 1 0    | 1 0    | 1 1    | 1 1    | 1 1    | 1 2    | 1 2    | 1 3    | 1 3    | 1 4    | 1 4    | 1 4   | 1 4  |      |
| 14   | 1 2            | 1 2    | 1 3    | 1 4    | 1 4    | 1 5    | 1 6    | 1 6    | 1 7    | 1 7    | 1 8    | 1 8    | 1 9    | 1 9    | 1 10  | 1 10 |      |
| 15   | 1 6            | 1 7    | 1 8    | 1 8    | 1 9    | 1 10   | 1 11   | 1 11   | 1 11   | 1 12   | 1 12   | 1 13   | 1 14   | 1 14   | 1 15  | 1 15 |      |
| 16   | 1 11           | 1 11   | 1 12   | 1 13   | 1 13   | 1 14   | 1 15   | 1 15   | 1 16   | 1 17   | 1 17   | 1 18   | 1 19   | 1 19   | 1 20  | 1 20 |      |
| 17   | 1 15           | 1 16   | 1 16   | 1 17   | 1 18   | 1 19   | 1 20   | 1 20   | 1 21   | 1 21   | 1 22   | 1 23   | 1 24   | 1 24   | 1 25  | 1 25 |      |
| 18   | 1 19           | 1 20   | 1 21   | 1 22   | 1 23   | 1 24   | 1 25   | 1 26   | 1 26   | 1 27   | 1 28   | 1 28   | 1 29   | 1 29   | 1 30  | 1 30 |      |
| 19   | 1 24           | 1 25   | 1 26   | 1 27   | 1 28   | 1 29   | 1 29   | 1 30   | 1 31   | 1 32   | 1 33   | 1 33   | 1 34   | 1 34   | 1 35  | 1 35 |      |
| 20   | 1 28           | 1 29   | 1 30   | 1 31   | 1 32   | 1 33   | 1 34   | 1 35   | 1 35   | 1 36   | 1 37   | 1 38   | 1 38   | 1 39   | 1 40  | 1 40 |      |
| 21   | 1 33           | 1 34   | 1 34   | 1 35   | 1 36   | 1 37   | 1 38   | 1 39   | 1 40   | 1 41   | 1 42   | 1 43   | 1 43   | 1 44   | 1 45  | 1 45 |      |
| 22   | 1 37           | 1 38   | 1 39   | 1 40   | 1 41   | 1 42   | 1 43   | 1 44   | 1 45   | 1 46   | 1 46   | 1 47   | 1 48   | 1 49   | 1 50  | 1 50 |      |
| 23   | 1 42           | 1 43   | 1 44   | 1 45   | 1 46   | 1 47   | 1 48   | 1 49   | 1 50   | 1 51   | 1 52   | 1 53   | 1 54   | 1 55   | 1 56  | 1 56 |      |
| 24   | 1 47           | 1 48   | 1 49   | 1 50   | 1 51   | 1 52   | 1 53   | 1 54   | 1 55   | 1 56   | 1 57   | 1 58   | 1 59   | 2 0    | 2 0   | 2 0  |      |
| 25   | 1 50           | 1 51   | 1 53   | 1 54   | 1 55   | 1 56   | 1 57   | 1 58   | 1 59   | 2 0    | 2 1    | 2 2    | 2 3    | 2 4    | 2 5   | 2 5  |      |
| 26   | 1 55           | 1 56   | 1 57   | 1 58   | 1 59   | 2 0    | 2 1    | 2 2    | 2 4    | 2 5    | 2 6    | 2 7    | 2 8    | 2 9    | 2 10  | 2 10 |      |
| 27   | 1 59           | 2 0    | 2 1    | 2 3    | 2 4    | 2 5    | 2 6    | 2 7    | 2 8    | 2 9    | 2 10   | 2 12   | 2 13   | 2 14   | 2 15  | 2 15 |      |
| 28   | 2 4            | 2 5    | 2 6    | 2 7    | 2 8    | 2 9    | 2 11   | 2 12   | 2 13   | 2 14   | 2 16   | 2 17   | 2 18   | 2 19   | 2 20  | 2 20 |      |
| 29   | 2 8            | 2 9    | 2 10   | 2 12   | 2 13   | 2 14   | 2 15   | 2 16   | 2 18   | 2 19   | 2 20   | 2 21   | 2 23   | 2 24   | 2 25  | 2 25 |      |
| 30   | 2 12           | 2 14   | 2 15   | 2 16   | 2 18   | 2 19   | 2 20   | 2 21   | 2 23   | 2 24   | 2 25   | 2 26   | 2 27   | 2 29   | 2 30  | 2 30 |      |
| 31   | 2 17           | 2 18   | 2 19   | 2 21   | 2 22   | 2 23   | 2 25   | 2 26   | 2 27   | 2 29   | 2 30   | 2 31   | 2 32   | 2 34   | 2 35  | 2 35 |      |
| 32   | 2 21           | 2 23   | 2 24   | 2 25   | 2 27   | 2 28   | 2 29   | 2 31   | 2 32   | 2 33   | 2 35   | 2 36   | 2 37   | 2 39   | 2 40  | 2 40 |      |
| 33   | 2 26           | 2 28   | 2 30   | 2 31   | 2 33   | 2 34   | 2 36   | 2 37   | 2 39   | 2 40   | 2 42   | 2 44   | 2 46   | 2 47   | 2 49  | 2 49 |      |
| 34   | 2 30           | 2 32   | 2 33   | 2 34   | 2 36   | 2 37   | 2 39   | 2 40   | 2 43   | 2 45   | 2 46   | 2 49   | 2 51   | 2 52   | 2 54  | 2 54 |      |
| 35   | 2 35           | 2 36   | 2 38   | 2 39   | 2 40   | 2 42   | 2 43   | 2 45   | 2 46   | 2 48   | 2 51   | 2 53   | 2 54   | 2 57   | 2 58  | 2 58 |      |
| 36   | 2 39           | 2 41   | 2 42   | 2 43   | 2 45   | 2 46   | 2 48   | 2 49   | 2 51   | 2 53   | 2 54   | 2 57   | 2 58   | 2 59   | 3 0   | 3 0  |      |
| 37   | 2 43           | 2 45   | 2 46   | 2 48   | 2 50   | 2 51   | 2 52   | 2 54   | 2 55   | 2 57   | 2 59   | 3 0    | 3 1    | 3 2    | 3 3   | 3 3  |      |
| 38   | 2 48           | 2 50   | 2 51   | 2 52   | 2 54   | 2 55   | 2 57   | 2 59   | 3 0    | 3 1    | 3 2    | 3 4    | 3 5    | 3 6    | 3 8   | 3 8  |      |
| 39   | 2 52           | 2 54   | 2 55   | 2 57   | 2 59   | 3 0    | 3 1    | 3 2    | 3 4    | 3 5    | 3 7    | 3 10   | 3 12   | 3 13   | 3 15  | 3 15 |      |
| 40   | 2 57           | 2 58   | 2 59   | 3 0    | 3 3    | 3 5    | 3 7    | 3 8    | 3 10   | 3 12   | 3 13   | 3 15   | 3 17   | 3 18   | 3 20  | 3 20 |      |

|    |        |        |        |       |        |        |       |       |       |       |       |       |       |       |       |
|----|--------|--------|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 41 | 3 1    | 3 3    | 3 4    | 3 6   | 3 10   | 3 11   | 3 13  | 3 15  | 3 16  | 3 18  | 3 20  | 3 22  | 3 23  | 3 25  | 4 1   |
| 42 | 3 5    | 3 7    | 3 9    | 3 11  | 3 12   | 3 16   | 3 18  | 3 19  | 3 21  | 3 23  | 3 24  | 3 27  | 3 28  | 3 30  | 4 1 B |
| 43 | 3 10   | 3 12   | 3 13   | 3 15  | 3 17   | 3 21   | 3 22  | 3 24  | 3 26  | 3 28  | 3 30  | 3 31  | 3 33  | 3 35  | 0 2   |
| 44 | 3 14   | 3 16   | 3 18   | 3 20  | 3 22   | 3 23   | 3 27  | 3 29  | 3 31  | 3 33  | 3 34  | 3 36  | 3 38  | 3 40  | 0 3   |
| 45 | 3 19   | 3 21   | 3 23   | 3 24  | 3 26   | 3 28   | 3 32  | 3 34  | 3 36  | 3 38  | 3 39  | 3 41  | 3 43  | 3 45  | 0 4   |
| 46 | 3 23   | 3 25   | 3 27   | 3 29  | 3 31   | 3 33   | 3 37  | 3 38  | 3 40  | 3 42  | 3 44  | 3 46  | 3 48  | 3 50  | 0 6   |
| 47 | 3 26   | 3 30   | 3 31   | 3 33  | 3 35   | 3 39   | 3 41  | 3 43  | 3 45  | 3 47  | 3 49  | 3 51  | 3 53  | 3 55  | 0 7   |
| 48 | 3 32   | 3 36   | 3 38   | 3 40  | 3 42   | 3 44   | 3 46  | 3 48  | 3 50  | 3 52  | 3 54  | 3 56  | 3 58  | 4 0   | 0 8   |
| 49 | 3 36   | 3 38   | 3 41   | 3 43  | 3 45   | 3 49   | 3 51  | 3 53  | 3 55  | 3 57  | 4 0   | 4 2   | 4 4   | 4 6   | 0 9   |
| 50 | 3 41   | 3 43   | 3 45   | 3 47  | 3 49   | 3 51   | 3 53  | 3 55  | 4 0   | 4 2   | 4 4   | 4 6   | 4 8   | 4 10  | 0 10  |
| 51 | 3 45   | 3 47   | 3 49   | 3 52  | 3 54   | 3 56   | 4 0   | 4 2   | 4 4   | 4 6   | 4 8   | 4 11  | 4 13  | 4 15  | 0 11  |
| 52 | 3 50   | 3 52   | 3 54   | 3 56  | 3 58   | 4 0    | 4 5   | 4 7   | 4 9   | 4 11  | 4 13  | 4 16  | 4 18  | 4 20  | 0 12  |
| 53 | 3 54   | 3 56   | 4 1    | 4 3   | 4 5    | 4 7    | 4 10  | 4 12  | 4 14  | 4 16  | 4 18  | 4 21  | 4 23  | 4 25  | 0 13  |
| 54 | 3 58   | 4 1    | 4 3    | 4 5   | 4 8    | 4 10   | 4 12  | 4 14  | 4 17  | 4 19  | 4 21  | 4 23  | 4 25  | 4 28  | 0 14  |
| 55 | 4 3    | 4 5    | 4 8    | 4 10  | 4 12   | 4 14   | 4 17  | 4 19  | 4 21  | 4 23  | 4 25  | 4 28  | 4 30  | 4 33  | 0 15  |
| 56 | 4 7    | 4 10   | 4 12   | 4 14  | 4 17   | 4 19   | 4 21  | 4 24  | 4 26  | 4 28  | 4 31  | 4 33  | 4 35  | 4 38  | 0 16  |
| 57 | 4 12   | 4 14   | 4 16   | 4 19  | 4 21   | 4 24   | 4 26  | 4 28  | 4 31  | 4 33  | 4 35  | 4 38  | 4 40  | 4 43  | 0 17  |
| 58 | 4 16   | 4 19   | 4 21   | 4 23  | 4 26   | 4 28   | 4 31  | 4 33  | 4 35  | 4 38  | 4 40  | 4 43  | 4 45  | 4 48  | 0 18  |
| 59 | 4 21   | 4 23   | 4 26   | 4 28  | 4 30   | 4 33   | 4 35  | 4 38  | 4 40  | 4 43  | 4 45  | 4 48  | 4 50  | 4 53  | 0 19  |
| 60 | 4 25   | 4 27   | 4 30   | 4 32  | 4 35   | 4 38   | 4 40  | 4 42  | 4 45  | 4 47  | 4 50  | 4 53  | 4 55  | 4 58  | 0 20  |
| 61 | 4 28   | 4 27   | 4 30   | 4 32  | 4 35   | 4 38   | 4 40  | 4 42  | 4 45  | 4 47  | 4 50  | 4 53  | 4 55  | 4 58  | 0 21  |
| 62 | 4 50   | 4 55   | 9 0    | 9 5   | 9 10   | 9 15   | 9 20  | 9 25  | 9 30  | 9 35  | 9 40  | 9 45  | 9 50  | 10 0  | 0 22  |
| 63 | 13 13  | 13 23  | 13 30  | 13 38 | 13 45  | 13 53  | 14 0  | 14 8  | 14 15 | 14 23 | 14 30 | 14 38 | 14 45 | 14 53 | 0 23  |
| 64 | 17 40  | 17 50  | 18 0   | 18 10 | 18 20  | 18 30  | 18 40 | 18 50 | 19 0  | 19 10 | 19 20 | 19 30 | 19 40 | 19 50 | 0 24  |
| 65 | 22 5   | 22 18  | 22 30  | 22 42 | 22 55  | 23 8   | 23 20 | 23 33 | 23 45 | 23 57 | 24 10 | 24 23 | 24 35 | 24 48 | 0 25  |
| 66 | 26 30  | 26 45  | 27 0   | 27 15 | 27 30  | 27 45  | 28 0  | 28 15 | 28 30 | 28 45 | 29 0  | 29 15 | 29 30 | 29 45 | 0 26  |
| 67 | 30 55  | 31 12  | 31 30  | 31 40 | 31 50  | 32 5   | 32 10 | 32 15 | 32 20 | 32 25 | 32 30 | 32 35 | 32 40 | 32 45 | 0 27  |
| 68 | 35 20  | 35 45  | 36 0   | 36 20 | 36 40  | 37 0   | 37 20 | 37 40 | 38 0  | 38 20 | 38 40 | 39 0  | 39 20 | 39 40 | 0 28  |
| 69 | 39 45  | 40 8   | 40 30  | 40 53 | 41 15  | 41 35  | 42 0  | 42 20 | 42 40 | 43 0  | 43 30 | 43 53 | 44 38 | 45 0  | 0 29  |
| 70 | 44 10  | 44 35  | 45 0   | 45 25 | 45 50  | 46 10  | 46 40 | 47 5  | 47 35 | 48 20 | 48 55 | 49 10 | 49 35 | 49 50 | 0 30  |
| 71 | 48 35  | 49 3   | 49 30  | 49 57 | 50 53  | 51 20  | 51 46 | 52 15 | 52 42 | 53 10 | 53 38 | 54 5  | 54 33 | 55 0  | 0 31  |
| 72 | 53 0   | 53 30  | 54 0   | 54 30 | 55 0   | 55 30  | 56 0  | 56 30 | 57 0  | 57 30 | 58 0  | 59 0  | 59 30 | 60 0  | 0 32  |
| 73 | 57 25  | 57 57  | 58 30  | 59 3  | 59 35  | 60 8   | 60 15 | 60 30 | 60 45 | 61 0  | 61 15 | 61 30 | 61 45 | 62 0  | 0 33  |
| 74 | 1 50   | 1 25   | 1 30   | 1 35  | 1 40   | 1 45   | 1 50  | 1 55  | 1 60  | 1 65  | 1 70  | 1 75  | 1 80  | 1 85  | 0 34  |
| 75 | 1 6 15 | 1 6 53 | 1 7 30 | 1 8   | 1 8 45 | 1 9 23 | 10 0  | 10 38 | 11 15 | 11 53 | 12 30 | 13 8  | 13 43 | 14 23 | 0 35  |
| 76 | 11 40  | 11 20  | 12 0   | 12 40 | 13 20  | 14 0   | 14 40 | 15 20 | 16 0  | 16 40 | 17 20 | 18 0  | 19 20 | 20 0  | 0 36  |
| 77 | 15 5   | 15 48  | 16 30  | 17 12 | 17 55  | 18 38  | 19 20 | 20 3  | 20 43 | 21 27 | 22 10 | 22 53 | 23 35 | 24 18 | 0 37  |
| 78 | 19 30  | 20 15  | 21 0   | 21 45 | 22 30  | 23 15  | 24 0  | 24 45 | 25 30 | 26 15 | 27 0  | 27 45 | 28 30 | 29 15 | 0 38  |
| 79 | 23 55  | 24 42  | 25 30  | 26 17 | 27 5   | 27 53  | 28 40 | 29 27 | 30 15 | 31 2  | 31 50 | 32 38 | 33 25 | 34 12 | 0 39  |
| 80 | 28 20  | 29 10  | 30 0   | 30 50 | 31 40  | 32 30  | 33 20 | 34 10 | 35 0  | 35 50 | 36 40 | 37 30 | 38 20 | 39 10 | 0 40  |
| 81 | 32 45  | 33 38  | 34 30  | 35 20 | 36 10  | 37 8   | 38 0  | 38 53 | 39 43 | 40 38 | 41 30 | 42 23 | 43 15 | 44 8  | 0 41  |
| 82 | 37 10  | 38 5   | 39 0   | 39 50 | 40 50  | 41 45  | 42 40 | 43 35 | 44 30 | 45 25 | 46 20 | 47 15 | 48 10 | 49 5  | 0 42  |
| 83 | 41 35  | 42 33  | 43 30  | 44 27 | 45 25  | 46 23  | 47 20 | 48 18 | 49 15 | 50 12 | 51 10 | 52 8  | 53 6  | 54 3  | 0 43  |
| 84 | 46 0   | 47 0   | 48 0   | 49 0  | 50 0   | 51 0   | 52 0  | 53 0  | 54 0  | 55 0  | 56 0  | 57 0  | 58 0  | 59 0  | 0 44  |

Twenty-eight Pisces forty-one is the position of Mercury at the moment of birth.

*Now Venus.* How far has Venus gone in 24 hours?—then, in 11 hours and 30 minutes: (The Venus column is to the right of Mercury.)

## MARCH 1950

| Day   | ♃                   | ♀       |
|-------|---------------------|---------|
| 19 Su | 20 × 9.0            | 14=31.1 |
| 20 M  | 22 1.0              | 15 15.9 |
| 21 Tu | 23 54.2             | 16 1.6  |
| 22 W  | 25 48.6             | 16 48.2 |
| 23 Th | 27 44.3             | 17 35.7 |
| 24 F  | 29 41.1             | 18 24.0 |
| 25 Sa | 1 <sup>T</sup> 39.0 | 19 13.0 |

Venus went from 17 Aquarius 36 (on March 23 at noon) to 18 Aquarius 24 (on March 24 at noon). We subtract:

$$\begin{array}{r}
 18^{\circ} \approx 24' \quad (\text{borrow } 1^{\circ}:60'; \text{ making} \\
 -17^{\circ} \approx 36' \quad \quad \quad 24' \text{ into } 84') \\
 \hline
 48' \quad \text{in 24 hours.}
 \end{array}$$

Turn to Table VII in the *Tables of Diurnal Planetary Motion* and find the key 48' at the top of page 82, 83. Read down the column to the 11 hours line: record 22' 00". Do the same for 30 minutes of time: record 1' 00". Add both numbers: 23'. That's the answer: Venus has advanced 23' of arc in 11 hours and 30 minutes from its noon position that day: 17 Aquarius 36. Add the increment to this noon position: *17 Aquarius 59, the corrected Venus position!*

## MARCH

| Day   | ♂       |
|-------|---------|
| 19 Su | 3=28.8  |
| 20 M  | 3 R 5.8 |
| 21 Tu | 2 42.6  |
| 22 W  | 2 19.3  |
| 23 Th | 1 55.9  |
| 24 F  | 1 32.4  |
| 25 Sa | 1 9.0   |

For Mars we find the appropriate column —next to Venus—(pages 12 and 13). Study the numbers of Mars' movement. They decrease! This is no problem at all. It is always shown by a boldface "R" next to the sign symbol at the top of the column (or between the degrees and minutes on the day of the month it turned



“retrograde”. “Retrograde” means apparent backward motion, and is experienced with all planets at regular intervals; never with the Sun or Moon. The motion during retrograde periods is always very little (except for Mercury or Venus). It presents no problem whatsoever. We must be careful only to subtract retrograde movement.

The example shows that Mars moves from  $1^{\circ}$  Libra  $55'.9$  (round off to  $56'$ ) to  $1^{\circ}$  Libra  $32'.4$ . The difference, the backward movement is  $24'$  in the 24-hour period. We look in Table VII (pages 84, 85) and find the key of  $24'$ , check the 11 hour and 30 minute columns, and make the addition:

$$\begin{array}{r} 11' 00'' \\ + \quad 30'' \\ \hline \end{array}$$

$11' 30''$  (round off to  $12'$ ; seconds are not important with the planets)

We then *subtract* this retrograde movement from the noon position on the birth day:

$$\begin{array}{r} 1^{\circ} \cong 56' \\ - \quad 12' \\ \hline \end{array}$$

$1^{\circ} \cong 44'$  R, the corrected Mars position for the moment of birth. The movement was slow. With experience, you will hardly have to resort to the tables. You will think this way: 11 hours and 30 minutes is a little under half a day—we may say  $1/2$  day. The daily motion difference here is  $-24'$ . One half of this is  $12'$ . Then you would have *subtracted* this retrograde motion quickly. The answer  $1^{\circ} 44'$  would be right—with no pencil work.

Table VII Diurnal Motion of the Planets

| TIME | 24 HOUR TRAVEL |        |        |        |        |        |        |        |        |        |        |        |        |        |       |
|------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
|      | 0° 46'         | 0° 47' | 0° 48' | 0° 49' | 0° 50' | 0° 51' | 0° 52' | 0° 53' | 0° 54' | 0° 55' | 0° 56' | 0° 57' | 0° 58' | 0° 59' | 1° 0' |
| M    | 0.2            | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    | 0.3   |
| I    | 0.4            | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.5   |
| N    | 0.6            | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.7   |
| H    | 0.8            | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.9   |
| T    | 0.10           | 0.10   | 0.10   | 0.10   | 0.10   | 0.10   | 0.10   | 0.10   | 0.10   | 0.10   | 0.10   | 0.10   | 0.10   | 0.10   | 0.12  |
| E    | 0.12           | 0.12   | 0.12   | 0.12   | 0.12   | 0.12   | 0.12   | 0.12   | 0.12   | 0.12   | 0.12   | 0.12   | 0.12   | 0.12   | 0.14  |
| S    | 0.14           | 0.14   | 0.14   | 0.14   | 0.14   | 0.14   | 0.14   | 0.14   | 0.14   | 0.14   | 0.14   | 0.14   | 0.14   | 0.14   | 0.16  |
| 6    | 0.15           | 0.15   | 0.15   | 0.15   | 0.15   | 0.15   | 0.15   | 0.15   | 0.15   | 0.15   | 0.15   | 0.15   | 0.15   | 0.15   | 0.17  |
| 7    | 0.16           | 0.16   | 0.16   | 0.16   | 0.16   | 0.16   | 0.16   | 0.16   | 0.16   | 0.16   | 0.16   | 0.16   | 0.16   | 0.16   | 0.18  |
| 8    | 0.17           | 0.17   | 0.17   | 0.17   | 0.17   | 0.17   | 0.17   | 0.17   | 0.17   | 0.17   | 0.17   | 0.17   | 0.17   | 0.17   | 0.19  |
| 9    | 0.18           | 0.18   | 0.18   | 0.18   | 0.18   | 0.18   | 0.18   | 0.18   | 0.18   | 0.18   | 0.18   | 0.18   | 0.18   | 0.18   | 0.20  |
| 10   | 0.19           | 0.20   | 0.20   | 0.20   | 0.21   | 0.21   | 0.22   | 0.22   | 0.23   | 0.23   | 0.23   | 0.23   | 0.24   | 0.25   | 0.25  |
| 11   | 0.21           | 0.22   | 0.22   | 0.22   | 0.23   | 0.23   | 0.24   | 0.24   | 0.25   | 0.25   | 0.25   | 0.26   | 0.27   | 0.27   | 0.28  |
| 12   | 0.23           | 0.24   | 0.24   | 0.24   | 0.25   | 0.25   | 0.26   | 0.26   | 0.27   | 0.27   | 0.28   | 0.29   | 0.29   | 0.30   | 0.30  |
| 13   | 0.25           | 0.25   | 0.26   | 0.27   | 0.27   | 0.28   | 0.28   | 0.29   | 0.29   | 0.30   | 0.30   | 0.31   | 0.31   | 0.32   | 0.32  |
| 14   | 0.27           | 0.27   | 0.28   | 0.29   | 0.29   | 0.30   | 0.30   | 0.31   | 0.31   | 0.32   | 0.32   | 0.33   | 0.33   | 0.34   | 0.34  |
| 15   | 0.29           | 0.29   | 0.30   | 0.31   | 0.31   | 0.32   | 0.32   | 0.33   | 0.33   | 0.34   | 0.34   | 0.35   | 0.35   | 0.36   | 0.36  |
| 16   | 0.31           | 0.31   | 0.32   | 0.33   | 0.33   | 0.34   | 0.34   | 0.35   | 0.35   | 0.36   | 0.36   | 0.37   | 0.37   | 0.38   | 0.38  |
| 17   | 0.33           | 0.33   | 0.34   | 0.35   | 0.35   | 0.36   | 0.36   | 0.37   | 0.37   | 0.38   | 0.38   | 0.39   | 0.39   | 0.39   | 0.40  |
| 18   | 0.35           | 0.35   | 0.36   | 0.37   | 0.37   | 0.38   | 0.38   | 0.39   | 0.40   | 0.41   | 0.41   | 0.42   | 0.42   | 0.42   | 0.42  |
| 19   | 0.36           | 0.37   | 0.38   | 0.39   | 0.40   | 0.40   | 0.41   | 0.42   | 0.43   | 0.44   | 0.44   | 0.45   | 0.45   | 0.45   | 0.45  |
| 20   | 0.38           | 0.39   | 0.40   | 0.41   | 0.42   | 0.43   | 0.43   | 0.44   | 0.45   | 0.46   | 0.46   | 0.47   | 0.47   | 0.47   | 0.47  |
| 21   | 0.40           | 0.41   | 0.42   | 0.43   | 0.44   | 0.45   | 0.46   | 0.46   | 0.47   | 0.48   | 0.48   | 0.49   | 0.49   | 0.50   | 0.50  |
| 22   | 0.42           | 0.43   | 0.44   | 0.45   | 0.46   | 0.47   | 0.48   | 0.48   | 0.49   | 0.50   | 0.50   | 0.51   | 0.51   | 0.52   | 0.52  |
| 23   | 0.44           | 0.45   | 0.46   | 0.47   | 0.48   | 0.49   | 0.50   | 0.50   | 0.51   | 0.52   | 0.52   | 0.53   | 0.53   | 0.54   | 0.54  |
| 24   | 0.46           | 0.47   | 0.48   | 0.49   | 0.50   | 0.51   | 0.52   | 0.52   | 0.53   | 0.54   | 0.54   | 0.55   | 0.55   | 0.56   | 0.56  |
| 25   | 0.48           | 0.49   | 0.50   | 0.51   | 0.52   | 0.53   | 0.54   | 0.54   | 0.55   | 0.56   | 0.56   | 0.57   | 0.57   | 0.58   | 0.58  |
| 26   | 0.50           | 0.51   | 0.52   | 0.53   | 0.54   | 0.55   | 0.56   | 0.57   | 0.57   | 0.58   | 0.58   | 0.59   | 0.59   | 0.60   | 0.60  |
| 27   | 0.52           | 0.53   | 0.54   | 0.55   | 0.56   | 0.57   | 0.58   | 0.58   | 0.59   | 0.60   | 0.60   | 0.61   | 0.61   | 0.62   | 0.62  |
| 28   | 0.54           | 0.55   | 0.56   | 0.57   | 0.58   | 0.59   | 0.59   | 0.60   | 0.61   | 0.62   | 0.62   | 0.63   | 0.63   | 0.64   | 0.64  |
| 29   | 0.56           | 0.57   | 0.58   | 0.59   | 0.60   | 0.61   | 0.61   | 0.62   | 0.63   | 0.64   | 0.64   | 0.65   | 0.65   | 0.66   | 0.66  |
| 30   | 0.58           | 0.59   | 0.60   | 0.61   | 0.62   | 0.63   | 0.63   | 0.64   | 0.65   | 0.66   | 0.66   | 0.67   | 0.67   | 0.68   | 0.68  |
| 31   | 0.59           | 0.61   | 0.62   | 0.63   | 0.64   | 0.65   | 0.66   | 0.66   | 0.67   | 0.68   | 0.68   | 0.69   | 0.69   | 0.70   | 0.70  |
| 32   | 0.61           | 0.62   | 0.63   | 0.64   | 0.65   | 0.66   | 0.67   | 0.67   | 0.68   | 0.69   | 0.69   | 0.70   | 0.70   | 0.71   | 0.71  |
| 33   | 0.63           | 0.64   | 0.65   | 0.66   | 0.67   | 0.68   | 0.68   | 0.69   | 0.70   | 0.71   | 0.71   | 0.72   | 0.72   | 0.73   | 0.73  |
| 34   | 0.65           | 0.66   | 0.67   | 0.68   | 0.69   | 0.70   | 0.70   | 0.71   | 0.72   | 0.73   | 0.73   | 0.74   | 0.74   | 0.75   | 0.75  |
| 35   | 0.67           | 0.68   | 0.69   | 0.70   | 0.71   | 0.72   | 0.72   | 0.73   | 0.74   | 0.75   | 0.75   | 0.76   | 0.76   | 0.77   | 0.77  |
| 36   | 0.69           | 0.70   | 0.71   | 0.72   | 0.73   | 0.74   | 0.74   | 0.75   | 0.76   | 0.77   | 0.77   | 0.78   | 0.78   | 0.79   | 0.79  |
| 37   | 0.71           | 0.72   | 0.73   | 0.74   | 0.75   | 0.76   | 0.76   | 0.77   | 0.78   | 0.79   | 0.79   | 0.80   | 0.80   | 0.81   | 0.81  |
| 38   | 0.73           | 0.74   | 0.75   | 0.76   | 0.77   | 0.78   | 0.78   | 0.79   | 0.80   | 0.81   | 0.81   | 0.82   | 0.82   | 0.83   | 0.83  |
| 39   | 0.75           | 0.76   | 0.77   | 0.78   | 0.79   | 0.80   | 0.80   | 0.81   | 0.82   | 0.83   | 0.83   | 0.84   | 0.84   | 0.85   | 0.85  |
| 40   | 0.77           | 0.78   | 0.79   | 0.80   | 0.81   | 0.82   | 0.82   | 0.83   | 0.84   | 0.85   | 0.85   | 0.86   | 0.86   | 0.87   | 0.87  |

# Placing the Planets

|     |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |     |
|-----|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 41  | 1 19  | 1 20  | 1 22 | 1 24  | 1 25  | 1 27  | 1 29  | 1 31  | 1 32  | 1 34  | 1 36  | 1 37  | 1 39  | 1 41  | 1 42  | 41  |
| 42  | 1 20  | 1 22  | 1 24 | 1 26  | 1 27  | 1 29  | 1 31  | 1 33  | 1 34  | 1 36  | 1 38  | 1 40  | 1 42  | 1 43  | 1 45  | 42  |
| 43  | 1 22  | 1 24  | 1 26 | 1 28  | 1 30  | 1 31  | 1 33  | 1 35  | 1 37  | 1 39  | 1 40  | 1 42  | 1 44  | 1 46  | 1 47  | 43  |
| 44  | 1 24  | 1 26  | 1 28 | 1 30  | 1 32  | 1 34  | 1 35  | 1 37  | 1 39  | 1 41  | 1 43  | 1 45  | 1 46  | 1 48  | 1 50  | 44  |
| 45  | 1 26  | 1 28  | 1 30 | 1 32  | 1 34  | 1 36  | 1 38  | 1 39  | 1 41  | 1 43  | 1 45  | 1 47  | 1 49  | 1 51  | 1 53  | 45  |
| 46  | 1 28  | 1 30  | 1 32 | 1 34  | 1 36  | 1 38  | 1 40  | 1 42  | 1 43  | 1 45  | 1 47  | 1 49  | 1 51  | 1 53  | 1 55  | 46  |
| 47  | 1 30  | 1 32  | 1 34 | 1 36  | 1 38  | 1 40  | 1 42  | 1 44  | 1 46  | 1 48  | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 47  |
| 48  | 1 32  | 1 34  | 1 36 | 1 38  | 1 40  | 1 42  | 1 44  | 1 46  | 1 48  | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 2 0   | 48  |
| 49  | 1 34  | 1 36  | 1 38 | 1 40  | 1 42  | 1 44  | 1 46  | 1 48  | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 2 0   | 2 3   | 49  |
| 50  | 1 36  | 1 38  | 1 40 | 1 42  | 1 44  | 1 46  | 1 48  | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 2 1   | 2 3   | 2 5   | 50  |
| 51  | 1 38  | 1 40  | 1 42 | 1 44  | 1 46  | 1 48  | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 2 1   | 2 3   | 2 5   | 2 8   | 51  |
| 52  | 1 40  | 1 42  | 1 44 | 1 46  | 1 48  | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 2 1   | 2 3   | 2 5   | 2 8   | 2 10  | 52  |
| 53  | 1 42  | 1 44  | 1 46 | 1 48  | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 2 1   | 2 3   | 2 5   | 2 8   | 2 10  | 2 12  | 53  |
| 54  | 1 43  | 1 45  | 1 48 | 1 50  | 1 52  | 1 54  | 1 56  | 1 58  | 2 1   | 2 3   | 2 5   | 2 8   | 2 11  | 2 13  | 2 15  | 54  |
| 55  | 1 45  | 1 48  | 1 50 | 1 52  | 1 54  | 1 56  | 1 58  | 2 1   | 2 3   | 2 5   | 2 8   | 2 11  | 2 13  | 2 15  | 2 18  | 55  |
| 56  | 1 47  | 1 50  | 1 52 | 1 54  | 1 56  | 1 58  | 2 1   | 2 3   | 2 5   | 2 8   | 2 11  | 2 13  | 2 15  | 2 18  | 2 20  | 56  |
| 57  | 1 49  | 1 52  | 1 54 | 1 56  | 1 58  | 2 1   | 2 3   | 2 5   | 2 8   | 2 11  | 2 13  | 2 15  | 2 18  | 2 20  | 2 23  | 57  |
| 58  | 1 51  | 1 54  | 1 56 | 1 58  | 2 0   | 2 3   | 2 5   | 2 8   | 2 11  | 2 13  | 2 15  | 2 18  | 2 20  | 2 23  | 2 27  | 58  |
| 59  | 1 53  | 1 56  | 1 58 | 2 0   | 2 3   | 2 5   | 2 8   | 2 10  | 2 12  | 2 15  | 2 18  | 2 20  | 2 23  | 2 27  | 2 30  | 59  |
| 60  | 1 55  | 1 57  | 2 0  | 2 3   | 2 5   | 2 8   | 2 10  | 2 12  | 2 15  | 2 18  | 2 20  | 2 23  | 2 25  | 2 27  | 2 30  | 60  |
| B 1 | 1 55  | 1 57  | 2 0  | 2 3   | 2 5   | 2 8   | 2 10  | 2 12  | 2 15  | 2 18  | 2 20  | 2 23  | 2 25  | 2 27  | 2 30  | B 1 |
| 0 2 | 3 50  | 3 55  | 4 0  | 4 5   | 4 10  | 4 15  | 4 20  | 4 25  | 4 30  | 4 35  | 4 40  | 4 45  | 4 50  | 4 55  | 5 0   | 0 2 |
| 0 3 | 5 45  | 5 53  | 6 0  | 6 8   | 6 15  | 6 23  | 6 30  | 6 38  | 6 45  | 6 53  | 7 0   | 7 8   | 7 15  | 7 23  | 7 30  | 0 3 |
| 0 4 | 7 40  | 7 50  | 8 0  | 8 10  | 8 20  | 8 30  | 8 40  | 8 50  | 9 0   | 9 10  | 9 20  | 9 30  | 9 40  | 9 50  | 10 0  | 0 4 |
| B 5 | 9 35  | 9 47  | 10 0 | 10 12 | 10 23 | 10 37 | 10 50 | 11 2  | 11 15 | 11 27 | 11 40 | 11 52 | 12 5  | 12 17 | 12 30 | B 5 |
| 6   | 11 30 | 11 45 | 12 0 | 12 15 | 12 30 | 12 45 | 13 0  | 13 15 | 13 30 | 13 45 | 14 0  | 14 15 | 14 30 | 14 45 | 15 0  | 6   |
| 7   | 13 25 | 13 45 | 14 0 | 14 18 | 14 35 | 14 53 | 15 10 | 15 28 | 15 45 | 16 3  | 16 20 | 16 38 | 16 55 | 17 12 | 17 30 | 7   |
| 8   | 15 20 | 15 40 | 16 0 | 16 20 | 16 40 | 17 0  | 17 40 | 18 0  | 18 20 | 18 40 | 19 0  | 19 20 | 19 40 | 20 0  | 20 8  | 8   |
| 9   | 17 15 | 17 35 | 18 0 | 18 25 | 18 45 | 19 8  | 19 30 | 19 53 | 20 15 | 20 38 | 21 0  | 21 23 | 21 45 | 22 8  | 22 30 | 9   |
| 10  | 19 10 | 19 35 | 20 0 | 20 25 | 20 50 | 21 15 | 21 40 | 22 5  | 22 30 | 22 55 | 23 20 | 23 45 | 24 10 | 24 35 | 25 0  | 10  |
| 11  | 21 5  | 21 35 | 22 0 | 22 27 | 23 55 | 23 23 | 23 50 | 24 18 | 24 45 | 25 12 | 25 40 | 26 8  | 26 35 | 27 3  | 27 30 | 11  |
| 12  | 23 0  | 23 30 | 24 0 | 24 30 | 25 0  | 25 30 | 26 0  | 26 30 | 27 0  | 27 45 | 28 0  | 28 45 | 29 0  | 29 30 | 30 0  | 12  |
| 13  | 24 5  | 25 27 | 26 0 | 26 33 | 27 5  | 27 38 | 28 10 | 28 42 | 29 15 | 29 48 | 30 20 | 30 51 | 31 25 | 31 57 | 32 30 | 13  |
| 14  | 26 40 | 27 25 | 28 0 | 28 35 | 29 10 | 29 45 | 30 20 | 30 55 | 31 30 | 32 45 | 33 40 | 34 15 | 34 50 | 35 15 | 35 50 | 14  |
| 15  | 28 45 | 29 23 | 30 0 | 30 38 | 31 15 | 31 53 | 32 30 | 33 8  | 33 43 | 34 23 | 35 0  | 35 38 | 36 15 | 36 53 | 37 30 | 15  |
| 16  | 30 40 | 31 20 | 32 0 | 32 40 | 33 20 | 34 0  | 34 40 | 35 20 | 36 0  | 36 40 | 37 20 | 38 0  | 38 40 | 39 20 | 40 0  | 16  |
| 17  | 32 35 | 33 18 | 34 0 | 34 42 | 35 25 | 36 8  | 36 50 | 37 33 | 38 15 | 38 57 | 39 40 | 40 23 | 41 5  | 41 48 | 42 30 | 17  |
| 18  | 34 30 | 35 15 | 36 0 | 36 45 | 37 30 | 38 15 | 39 0  | 39 45 | 40 30 | 41 15 | 42 0  | 42 45 | 43 30 | 44 15 | 45 0  | 18  |
| 19  | 36 25 | 37 12 | 38 0 | 38 48 | 39 35 | 40 23 | 41 10 | 41 57 | 42 45 | 43 30 | 44 20 | 45 8  | 45 55 | 46 42 | 47 30 | 19  |
| 20  | 38 20 | 39 10 | 40 0 | 40 50 | 41 40 | 42 30 | 43 20 | 44 10 | 45 0  | 45 50 | 46 40 | 47 30 | 48 20 | 49 10 | 50 0  | 20  |
| 21  | 40 15 | 41 8  | 42 0 | 42 53 | 43 45 | 44 38 | 45 30 | 46 23 | 47 15 | 48 8  | 49 0  | 49 53 | 50 45 | 51 38 | 52 30 | 21  |
| 22  | 42 10 | 43 5  | 44 0 | 44 53 | 45 50 | 46 45 | 47 40 | 48 35 | 49 30 | 50 25 | 51 20 | 52 15 | 53 10 | 54 5  | 55 0  | 22  |
| 23  | 44 0  | 45 5  | 46 0 | 46 57 | 47 55 | 48 53 | 49 50 | 50 48 | 51 45 | 52 42 | 53 40 | 54 38 | 55 35 | 56 33 | 57 30 | 23  |
| 24  | 46 0  | 47 0  | 48 0 | 49 0  | 50 0  | 51 0  | 52 0  | 53 0  | 54 0  | 55 0  | 56 0  | 57 0  | 58 0  | 59 0  | 0     | 24  |





Let's do Jupiter *without using* the table: find the Jupiter column in your ephemeris (pages 12 and 13) and just look at the position for 23 March and the position the next day at noon. You see:

25 Aquarius 25

25 Aquarius 38

The motion is *not* retrograde since there is no "R" in the column before 23 March, and the position on 24 March is more than the position on 23 March. You see immediately that the increase in position is 13'. Our 11:30 elapsed time interval is a little under  $\frac{1}{2}$  day. One-half of 13' is 6.5' or 7'.

Add this in your head to the position on the *noon preceding* birth, 23 March, and our answer becomes 25  $\approx$  32, the corrected position of Jupiter at the moment of birth.

The same thing with Saturn: find the Saturn column in the ephemeris (pages 12 and 13) and look at the two positions. the motion is less on 24 March than on 23 March, and there is an "R" earlier in the column: *retrograde motion*. We will have to subtract, of course. How far backwards did Saturn appear to go?  $-5'$ . One half of this movement is  $2.5'$  which is  $-3'$ . Saturn's position for the moment of birth is  $14^{\circ} 44' R$ . (Never forget to follow the planet's longitudinal position with an "R" if the motion is retrograde.)

For Uranus, the positions changed less than one minute between the two days. We can round off our answer to  $1^{\circ} \odot 02'$ .

Note, at the top of the column that from March 1 through March 9, Uranus was retrograde. Then on March 9, it assumed *direct motion*, “D” normal motion.

Neptune retrogrades  $-2'$  between our two noon-dates. One-half of  $2'$  is  $1'$ . Our answer is  $16 \cong 21$  R.

Pluto moves about  $1'$  a day. We can round off our answer by listing Pluto as retrograde at  $16^\circ \Omega 02'$ .

*Organization Note.* In the work with the first example, you probably had computations all over the place! Now, begin to organize your work in your own style. This organization is important. You will want to refer to your work sheet for a horoscope at a later date, to use the computations already made in other procedures. The work done in basic horoscope construction is the backbone of all measurements. You might want to organize your work sheet in this way: the birth date, time (clearly labeled), and place (with latitude and longitude) across the top. —Then, in the upper left quarter of your page, the sidereal time corrections, and below the S.T. work the clearly labeled GMT correction with the planet positions for the noon preceding birth ordered in a column down the left side to the bottom of the page. The right side of the work sheet is then free for computations and checking any mistakes. Write the corrected planet position for each body next to the preceding noon position and underline or box it clearly.

It saves time to do all the subtractions of noon positions first and then enter the tables of motion just once to find all the increments. Then you do all the additions at the same time on the work sheet. All the work fits easily on an 8½ x 11 piece of lined paper. Clip or staple the work sheet to the horoscope for your records. Keep every horoscope you ever do; as you learn analysis, you will constantly refer back to early horoscopes to increase your understanding of them and improve your overall experience.

The mistakes you make at first will surely be time zone mistakes and placing seconds (") in minutes (') columns or minutes in degree (°) columns. Study some maps to remedy the former (and chapter 6); sharpen your pencil for the latter!

So: there you have it! There are a few more details which we will cover in the next two examples. But you have just drawn an extremely accurate horoscope. With practice, the whole operation will take only 10 to 15 minutes!



Now let's take the second example (page 19) for the birth on *June 5, 1950 at 9:00 AM DST – 8:00 AM EST in Boston, 71° longitude West*. The only caution is with the time-change. Born at 8:00 AM, EST in Boston, in the Eastern Standard Time Zone, 5 hours west of Greenwich, means that, at the moment of birth, the time in Greenwich was 8 AM standard *plus* 5, or 13 hours, which is 1:00 PM. So our time increment to the exact moment of birth is only *one hour* after noon in Greenwich on the day of birth. The planets will have moved only one hour of motion at their individual rates.

Here are the calculations for our second example. Order your work sheet, find the Appendix pages as you need them, and follow along.<sup>2</sup>

Sun                    June 5 14 ° 14' 55"

☉                      June 6 15 ° 12' 19"

|            |               |                             |
|------------|---------------|-----------------------------|
| therefore: | 15 ° 12' 19"  | (borrow 1° for 60'<br>more) |
|            | -14 ° 14' 55" | (borrow 1' for 60"<br>more) |
|            | 57' 24"       |                             |

2. Note: For the first example, we reproduced every relevant page from the ephemeris, the *Tables of Houses*, and the *Tables of Diurnal Planetary Motion*. For the next two examples – and for the test horoscopes discussed later – all the relevant pages from these three reference books are reproduced in the Appendix. Take a moment to familiarize yourself with the Appendix. For your further work in astrology, you will need these reference works for yourself: both tables are set for all horoscopes; the ephemeris only is needed for each different year.

Table V: 57' 24" is the nearest key; 1H: 2' 24"

$$\begin{array}{r} \text{June 5 } 14^{\text{h}} 14' 55'' \\ + \quad \quad 2' 24'' \text{ (in one hour)} \\ \hline 14^{\text{h}} 16' 79'' \text{ or } 14^{\text{h}} 17' 19'' \\ \text{corrected } \odot \end{array}$$

Moon      June 5    20  $\approx$  46' 47"  
      June 6    27  $\approx$  19' 50" (0 hr)

therefore:      26  $\approx$  79' 50"  

$$\begin{array}{r} -20 \approx 46' 47'' \text{ (careful borrowing)} \\ \hline 6 \approx 33' 03'' \end{array}$$

Table VI: 6° 33' is the key; 1H: 32' 45"

$$\begin{array}{r} \text{June 5 } 20 \approx 46' 47'' \\ + \quad \quad 32' 45'' \\ \hline 20 \approx 79' 32'' \text{ or } 21 \approx 19' 32'' \\ \text{corrected } \textcircled{D} \end{array}$$

Mercury



$$\begin{array}{r} 22 \text{ } \textcircled{D} \text{ } 10 \\ - 21 \text{ } \textcircled{D} \text{ } 29 \\ \hline 41 \end{array} \text{ into Table VII: 1 H} \\ \text{motion is } 1' 42'' \text{ for} \\ \text{key } 41'$$

$$\begin{array}{r} 21 \text{ } \textcircled{D} \text{ } 29 \\ + \quad \quad 2 \text{ (round off seconds for} \\ \hline 21 \text{ } \textcircled{D} \text{ } 31 \text{ planets)} \\ \text{corrected } \textcircled{D} \end{array}$$

Venus ♀  $\begin{array}{r} 5 \text{ } \text{\textcircled{v}} \text{ } 38 \\ - 4 \text{ } \text{\textcircled{v}} \text{ } 29 \\ \hline 1 \text{ } \text{ } 09 \end{array}$  (not ♃!) (Round off decimal to next highest number if over .5) into Table VII: one hour motion is 2' 53" for key 1° 09'


$\begin{array}{r} 4 \text{ } \text{\textcircled{v}} \text{ } 29 \\ + \text{ } \text{ } 3 \\ \hline 4 \text{ } \text{\textcircled{v}} \text{ } 32 \end{array}$  *corrected ♀*


Mars ♂ A little quicker now: look at the June 5 position of Mars: 27 ♃ 49. The noon position next day June 6 is 28 ♃ 08. Do this calculation in your head: the "49" needs 11' more to come to 28° ♃. Then, 8' more to the June 6 position. The total change of position that day then is 11' + 8' or 19'. One twenty-fourth (1/24 day is one hour!) of this 19' is less than a minute (disregard seconds). So we use the position of Mars as it stands at noon, June 5: 27 ♃ 49.

Eventually, you will be able to do all the planetary corrections this quickly in your head, with only minimum use of the tables and your pencil!

Jupiter ♃ The motion in one day is only 4' – not enough to make a difference in one hour. So the corrected position stands as it is in the ephemeris for June 5: 6 ♃ 43.

Saturn ♄ The motion is not significant. It stands at 12 ♄ 58.

Uranus  The same:  $3^{\circ} 54$ .

Neptune  The same, except it must be marked retrograde:  $14^{\circ} \simeq 41 R$ .

Pluto  The same:  $16^{\circ} 06$ .

*In the American Ephemeris*, seconds are given in decimals. Each decimal represents six seconds. Thus .6 really means 36" (6 x 6). Don't let that confuse you. Round off before you begin or do the computations with seconds and round off at the end. With more practice and confidence, you will easily keep the seconds of motion for the Sun and the Moon and record the whole figure. A second consideration is this: the chances are extremely good that the birth time you are working with is not precisely accurate. Later in our studies, we will see how to sense birth-time error, how to correct the birth-time—and we will work with some techniques where seconds might make a little difference. Let the rule be: for the Sun and Moon, keep the seconds when given in the tables. For the planets: round off.

You will note, also, that the degree and minutes and seconds symbols are used less frequently now as we get into computations and familiarity with the number writing and theories increases. We are streamlining our work so that, when we insert the planets into the horoscope, the picture will be as clear and uncluttered as possible, while still immediately readable and accurate.

Now, we are going to “breeze through” the planetary position corrections for our third example (page 23): *August 9, 1950 at 3:48 AM, DST (2:48 AM, PST), in San Francisco at longitude 122° W.*

We know that the Pacific Standard Time Zone is at 120° longitude west ( $8 \times 15^\circ = 120^\circ$ ), 8 time zones, 8 hours west of Greenwich. If it is 2:48 AM, PST, in the Pacific Standard Time Zone, it is 8 hours later in Greenwich. The time at that moment in Greenwich is 2:48 AM + 8 hours = 10:48 hours or 10:48 AM. So simple – but so bothersome to students and practiced astrologers alike!

In other words, we must correct the noon positions of the planets in the ephemeris for 10:48 AM, *but* – this corrected time is *before* noon. Here’s the rule: We always work with the *preceding noon*.

In our first two examples, the corrected time, the Greenwich Mean Time (GMT) was *after* noon on the birth day. In this example, it is one hour and twelve minutes *before* noon on the birth day. *We will work with the preceding noon – the noon on August 8 – and the elapsed time will be 22 hours and 48 minutes.* (Noon on August 8 to midnight is 12 hours and then 10 hours and 48 minutes into the morning of August 9 – a total of 22 hours and 48 minutes since the preceding noon.) This is the time the planets have been moving from the *preceding noon* to the moment of birth, GMT. We want to know how far the planets have gone since the noon position on August 8 in

22:48. We work with the positions of the preceding noon, August 8.

*GMT = 10:48 AM, August 9 Therefore, planets for noon, August 8, +22:48*

Sun

August 8 15<sup>o</sup> 21' 46"

August 9 16 19' 18"


$$\begin{array}{r}
 16^{\circ} 19' 18'' \\
 -15^{\circ} 21' 46'' \\
 \hline
 57' 32'' \text{ in 24 hours}
 \end{array}$$

*Table V:* 57'32" is our key.

$$\begin{array}{r}
 52' 44'' \text{ in 22 hours} \\
 + 1' 55'' \text{ in 48 minutes} \\
 \hline
 54' 39'' \text{ in 22:48}
 \end{array}$$

$$\begin{array}{r}
 15^{\circ} 21' 46'' \text{ preceding noon} \\
 \text{position} \\
 + \quad 54' 39'' \text{ in 22:48} \\
 \hline
 16^{\circ} 16' 25'' \text{ corrected Sun}
 \end{array}$$

We need the 12 hour Moon motion from 0 hour August 9 to Noon, August 9.

Moon August 9 20  $\square$  37' 01"  
 August 9 26 42' 21" easy subtraction;  
 invert the numbers  
 in your head:

6° 05' is our key

Table VI:

|    |         |               |
|----|---------|---------------|
| 5° | 04' 10" | in 10 hours   |
| +  | 24' 20" | in 48 minutes |
| 5° | 28' 30" | in 10:48      |

20  $\square$  37' 01" preceding noon  
 position

|   |              |         |                       |
|---|--------------|---------|-----------------------|
| + | 5            | 28' 30" | in 10:48              |
|   | 26 $\square$ | 05' 31" | <i>corrected Moon</i> |

Mercury



From 11  $\cap$  00 we must subtract 9  $\cap$  37. It's easy. "9° 37" needs 23' more to finish the ninth degree, then we have the whole tenth degree to 11 degrees even. The position difference is 1° 23'. The table gives:

|           |          |  |
|-----------|----------|--|
| 1°        | 16' 05"  |  |
| +         | 2' 46"   |  |
| 1°        | 18' 51"  | in 22:48                                     |
| +         | 9 $\cap$ | 37   |
| 10 $\cap$ | 55' 51"  | or 10 $\cap$ 56,<br><i>corrected Mercury</i> |

Venus



We need one degree from  $20^{\circ} 10'$  to  $21^{\circ} 10'$ , then plus  $13'$  to  $21^{\circ} 23'$ . The subtraction then is  $1^{\circ} 13'$ . The table gives an increment of  $1^{\circ} 09'$ .

$$\begin{array}{r} 20^{\circ} 10' \text{ noon position, August 8} \\ + 1^{\circ} 09' \\ \hline 21^{\circ} 19' \text{ corrected Venus} \end{array}$$

Mars



Do it in your head: “ $28 \simeq 41$ ” needs  $19'$  to finish the degree to “ $29^{\circ}$ ” even. The next day’s position (August 9) is  $17'$  further. So Mars goes  $36'$  from August 8 at noon to August 9 at noon.

Go to the Tables, *this time without a pencil*. Put one finger on the 22-hours line in the  $36'$  key column; put another finger on the 48-minutes line in the same column. You see  $33'$  below and  $1' 12''$  above. Discard the seconds. Add  $33'$  and  $1'$  and you get  $34'$ .

Now add  $34'$  to the noon position on August 8:

$$\begin{array}{r} 28 \simeq 41 \\ + \quad 34' \\ \hline 29 \simeq 15 \text{ corrected Mars} \end{array}$$

(Soon you will be able to add that “ $34$ ” to the noon position in your head as well.)

Jupiter



Do you see it? The “R” at the head of the column tells us Jupiter is retrograde. Easy.



We'll subtract. No problem. How far backwards did Jupiter go?  $44' - 37' = 8'$ ! The tables tell us  $7'$  of distance. We *subtract* this from the noon position on August 8:  $4 \times 37 \text{ R.}$ , *corrected Jupiter*.

Saturn



We see that Saturn advances  $6'$  in 24 hours. Now that we're "warmed up," we don't have to go to the tables: we just corrected Jupiter going back  $7'$ . So our proportion from the tables will be about the same. In this case, Saturn would advance  $6'$  in 22:48 if it would go  $6'$  in 24 hours. That is close enough: *Saturn is at 18<sup>th</sup> 08.*

Uranus



The motion is so small,  $3'$ : our increment is almost the full 24-hour motion period. Record the August 9 position:  $7^{\text{th}} 38.$

Neptune



Record the August 9 position:  $15 \approx 05.$

Pluto



Record the August 9 position:  $17 \approx 47.$

Finished. No more wrinkles!

*Final Remarks.* The need to correct the positions of the planets *from* GMT noon on the birth day (or on the day before the birth date) to the position at the moment of birth GMT is clear (page 66). With experience, you will

discover that the Sun moves between 58' and 60' on the average in a 24-hour period (or about 5' per 2 hours); the Moon 12° to 13° on the average (or 6° to 7° in 12 hours); Mercury 1° 06' - 1° 40'; Venus 1° 02' - 1° 22', Mars, a little over ½ degree; Jupiter, Saturn, Uranus, Neptune, and Pluto much less. This will ease computation a great deal: *you will anticipate your answer*. As we illustrated in several of the correction examples, you will get to feel how many degrees and/or minutes are left in the sign, hold that number in your head, and add the degrees and/or minutes into the next sign shown in the ephemeris. You will be able to do all the retrograde subtractions easily; the motion is always very slight.

There is much more information in the ephemeris — declinations, nodes, phenomena, etc. We will discuss all this information within this series of volumes as the information is needed in analysis and study.

Most textbooks teach planetary position corrections using *logarithms* and, indeed, the standard logarithm table accompanies almost every ephemeris. These tables are located in the back of *The American Book of Tables*. With logarithms, the *Table of Diurnal Planetary Motion* is not necessary, but more computations are. The method is also quite simple. When you look into other texts you will be able to study this other technique and choose it if it fits your personal style better. Using the motion tables is enormously easy and eliminates translating degrees-minutes-seconds into logs and logs into degrees-minutes-seconds.

*Placing the Planets into the Horoscope.* Our work with sidereal time and the *Tables of Houses* gave us the house cusps as we have seen on page 36. The cusps are “sign-posts” along a circular path *counter-clockwise*. We will place the planets into this circle in relation to the “sign-posts” on the cusps.

Here is a list of the planets for example one in their corrected positions (pages 68-88):

|   |             |   |                                    |
|---|-------------|---|------------------------------------|
| ☉ | 2 ♈ 46' 01" | ♃ | 14 ♏ 44 R (♃ <sub>R</sub> 14 ♏ 44) |
| ♀ | 17 ♁ 59     | ♄ | 25 ♁ 32                            |
| ♁ | 28 ♋ 41     | ♂ | 1 ♌ 44 R (♂ <sub>R</sub> 1 ♌ 44)   |
| ♃ | 1 ♌ 00' 03" | ♅ | 1 ♍ 02                             |
|   |             | ♆ | 16 ♎ 21 R (♆ <sub>R</sub> 16 ♎ 21) |
|   |             | ♁ | 16 ♏ 02 R (♁ <sub>R</sub> 16 ♏ 02) |

(The writing of retrogradation is shown in the preferred form in parenthesis.)

Now let us look closely at the Sun at 2 ♈ 46' 01": it is early in the *sign* of Aries but not yet to the beginning of the VII House (7° Aries). Aries is on the seventh cusp, the VII House: “7 ♈ 07” (although the 7° and the references to cusp and house as “7” or “VII” are purely coincidental). The path is counter-clockwise. The sign-post reads “7° something” and the Sun is only at “2° something.” The Sun *has not yet reached* the seventh cusp; it has 5° left to go! So, it takes its position just below the

seventh cusp, in the VI House, as illustrated. Write it in on your own horoscope blank. *Copy* the way the Sun position is written here, *exactly*, drawing the symbol near the circumference of the circle (page 101).

Keep clear in your mind the distinction between *sign* and *house*: the houses are on the paper, the signs are projected into the heavens. In analysis the two come together dynamically. We use a *degree of a sign* to mark the *beginning of a house*. The house begins at its *cusps*, sign-post.

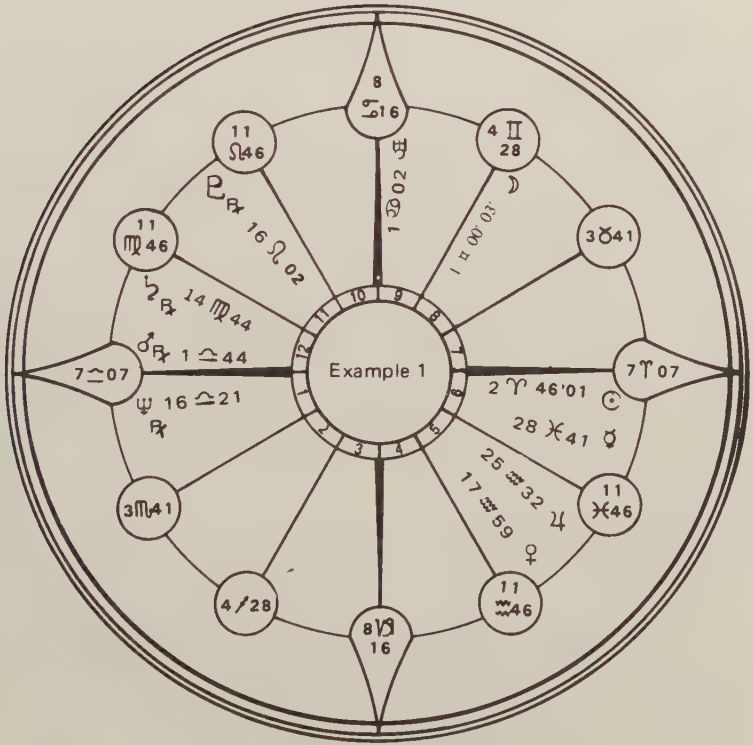
The Moon's corrected position is  $1 \text{ } \text{♊} \text{ } 00' \text{ } 03''$ . The Gemini sign-post is on the ninth cusp at " $4 \text{ } 28' \text{ } \text{♊}$ ". The IX House begins at  $4 \text{ } 28' \text{ } \text{♊}$ , but the Moon has not quite reached that point yet, so we would write-in the Moon *just before* the cusp, still in the VIII House. Copy it into your horoscope blank exactly as it is here.

Add Venus and Jupiter. Both planets are past the Aquarian sign-post. There are eight degrees between them: Venus to Jupiter. If we had a planet in early Pisces, it would join Venus and Jupiter in the V House, at  $9 \text{ } \text{♓}$ , for example, since the other planet would have to be further along in Pisces than  $11 \text{ } \text{ } 46'$  in order to take position in the VI House.

Saturn is retrograde at  $14 \text{ } \text{♍} \text{ } 44'$ , just past the sign-post on the twelfth cusp, in the XII House. Write it in exactly as it is here.

You will notice now that the planet-symbols always hug the circumference and that the writing of the degrees in the eastern half (left side) matches the writing and order

MARCH 23, 1950; 6:30 PM, EST; N.Y.C. 74W-41N



that you will be able to read the whole horoscope without spinning your head or the horoscope around. Write large and clearly.

Put in the rest of the positions carefully.

On page 101 is the complete horoscope. *This is the portrait.* Immediately, a practiced eye would pick out the fact that all of the planets that are in retrograde motion (Pluto, Saturn, Mars, and Neptune) are in the eastern half of the horoscope. *All the other planets and the Sun and Moon are in the western half.* Already, we can feel the special unique composition in this portrait. *Every horoscope is different!*

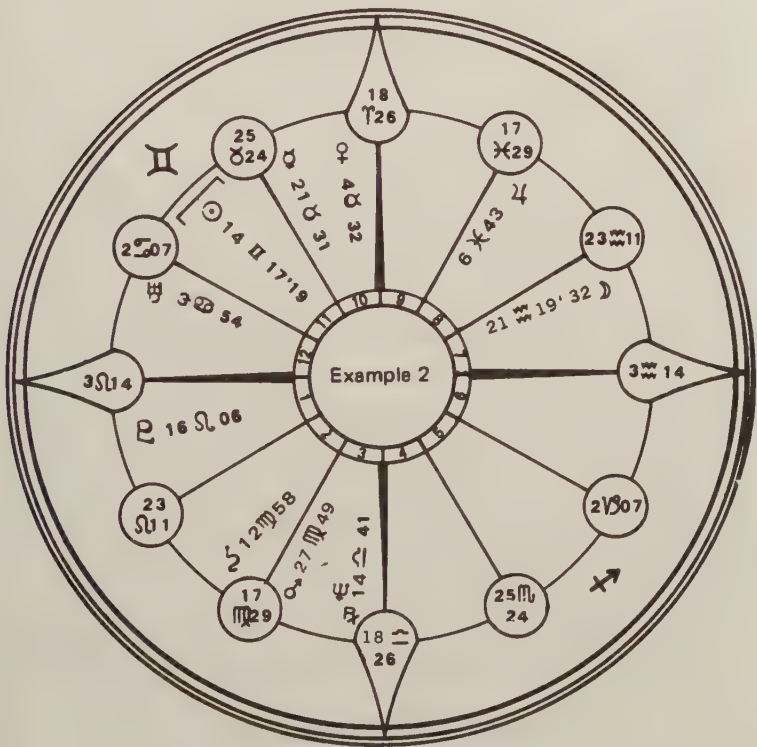
We would be able to notice that Mars is opposite the Sun. You have learned the signs in pairs of opposites: Libra is opposite Aries. Here we have a retrograde Mars in Libra opposite a Sun in Aries. The degree numbers are almost the same. This is a powerful factor in this horoscope.

So, as we work into analysis, this portrait comes to life in dramatic terms.

Now draw the picture of our second example (pages 90-93). The list of corrected planetary positions is as follows:

|   |              |                |         |
|---|--------------|----------------|---------|
| ☉ | 14 ♋ 17' 19" | ♃              | 6 ♋ 43  |
| ☽ | 21 ♋ 19' 32" | ♅              | 12 ♋ 58 |
| ♃ | 21 ♋ 31      | ♁              | 3 ♋ 54  |
| ♀ | 4 ♋ 32       | ♃ <sub>R</sub> | 14 ♋ 41 |
| ♂ | 27 ♋ 49      | ♁              | 16 ♋ 06 |

JUNE 5, 1950; 9:00 AM, DST; BOSTON; 71 W – 42 N  
 8:00 AM, EST



In our second horoscope (page 103), we have an entirely different individual pattern. Look again at page 39; remember the discussion about intercepted signs. Now, note how we draw the symbol within an intercepted sign. We bracket the symbol carefully. The Sun in the XI in intercepted Gemini illustrates this. The bracket helps us read the horoscope quickly when we “read” the symbols and positions “at a glance” later.

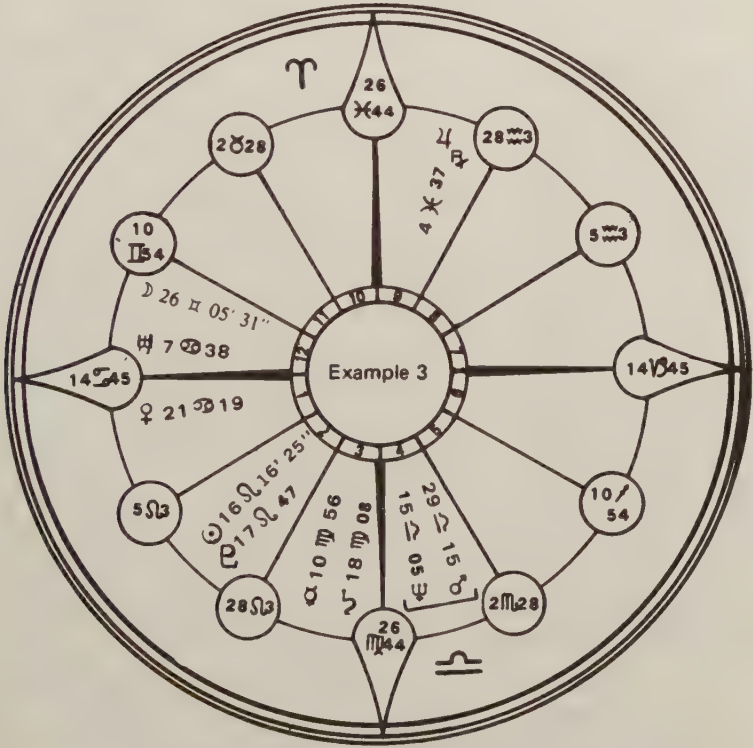
Uranus is two degrees past the twelfth cusp — right at the sign-post. Mercury is a bit closer ( $17^\circ$  closer) to the eleventh sign-post than Venus is. That difference should be shown by drawing the symbols a bit apart from one another. Notice that Mars and Neptune are in the III House but in different signs: the III House begins at the sign-post on the third cusp, 17 Virgo, continues another  $12^\circ$  through the sign Virgo to complete the sign at  $30^\circ$ , and finally finishes at the next sign-post on the fourth cusp, 18 into the next sign, Libra — Libra 18. Mars and Neptune both fall within that III House area and are drawn in that area. Neptune is  $17^\circ$  further along in counter-clockwise movement.

Our third example involves the corrected planetary positions as follows, brought forward from pages 94-98:

|                |                       |
|----------------|-----------------------|
| ☉ 16 ♍ 16' 25" | ♃ <sub>R</sub> 4 ♋ 37 |
| ☽ 26 ♋ 05' 31" | ♅ 18 ♏ 08             |
| ♀ 10 ♏ 56      | ♁ 7 ♎ 38              |
| ♀ 21 ♎ 19      | ♃ 15 ♌ 05             |
| ♂ 29 ♌ 15      | ♁ 17 ♍ 47             |



AUGUST 9, 1950; 3:48 AM, DST; SAN FRANCISCO; 122 W – 38 N  
 2:48 AM, PST



Again, a completely different, highly individualized pattern. Note how Neptune and Mars,  $14^{\circ}$  apart, are written, both intercepted in the IV House, in Libra. Note how the Sun and Pluto are so close together in Leo in the II House. This would be very important in analysis.

Notice how Jupiter, retrograde in the IX House, is the only planet away from the group in the northeast quadrant (lower left). Jupiter is almost exactly opposite Mercury in the III House, Pisces to Virgo;  $6^{\circ}$  more and Jupiter would be exactly opposite Mercury – but then again, Jupiter is in retrograde motion, supposedly going backwards! These are very important considerations in interpreting the horoscope and projecting it into the future. You see how, at first glance, the drawing can come to life; you can see that Uranus is only 6 or 7 degrees away from the ascendant – and Venus is only 6 or 7 degrees away from the ascendant as well! These observations all mean a great deal. You will be able to see them yourself soon and work with them *in meaning* – but we must be sure that you can draw the horoscope accurately, without mistakes, and read the symbols as easily as you can read your newspaper. Practice aloud: describe the position of each planet in the horoscope examples. Practice saying “Jupiter is retrograde in the IX House at  $4^{\circ}$  Pisces 37,  $23^{\circ}$  away from the Mid-Heaven, the zenith.” You will be surprised how fast you will learn.

## REVIEW

Here is a short review of the horoscope construction procedure:

*Correcting Sidereal Time*

1. Determine sidereal time of birth date from the ephemeris.
2. Correct the birth-time to standard time if necessary. *Add* elapsed time after noon to the S.T. for an afternoon birth. Or *subtract* the time remaining before noon from the S.T. for a before-noon birth.
3. Make the time correction: *10 seconds* per hour. *Add* if after noon; *subtract* if before noon.
4. Make the longitude correction: *10 seconds* per time zone. *Add* for western longitude; *subtract* for eastern longitude (example, chapter 6).
5. Make the sun correction: *4 minutes* per degree between the time zone meridian and birth location by longitude. *Add* the correction if the sun must go further to the west to reach the time zone meridian. *Subtract* the correction if the sun must come back to the east to reach the time zone meridian.

*Measuring the House Cusps*

1. Enter the *Tables of Houses* under the Sidereal Time and find the S.T. nearest your corrected S.T. and note the cusp arrangement.
2. Place the cusp notations in the horoscope diagram, adding the opposite signs.

*Correcting the Planets' Positions*

1. Determine how many time zones separate the birth-place time zone from  $00^{\circ}$  Greenwich. If working with western longitude, add the number of time zones in hours (one hour per time zone) to the *standard time* of birth. If eastern longitude, *subtract* (example, chapter 6). This gives GMT, Greenwich mean time.
2. Determine from GMT how far the planets have moved in the interval *after* noon. If the corrected GMT is before noon on the birthday, work with the *preceding noon* position and use the interval from noon on the preceding day. Always: the preceding noon. It is only with the Moon in using a 12 hour motion that we sometimes figure our calculations from the preceding midnight (or 0 hr.).
3. Determine the distance the planet travels noon-to-noon.
4. Find this 24-hour motion key in the *Tables of Diurnal Planetary Motion* and find the motion in the time interval to the birth time after the noon position *preceding* the birth time, GMT.
5. Add this distance travelled to the position listed in the Ephemeris for the preceding noon. This is the position of the planet at the moment of birth.

## NOTE:

Students using different ephemerides may note slight differences in the seconds from one ephemeris to another. This is usually explained in that some ephem-

erides are calculated using *ephemeris* time, while others are calculated using *delta* time. Such slight difference will not effect our interpretation in any way.

With practice, you will be able to draw the horoscope from start to finish in 15 minutes for sure. Your first ones may take an hour – or hours! Becoming familiar with the symbols and the premise of time and distance, of degrees and minutes and seconds of arc is the key. It is not difficult – it is just unfamiliar.

The next chapter deals with much of the material already covered, but more thoroughly. Before going on to this next chapter, really study the preceding pages; really know how to construct the example horoscopes – and these extra exercise, “test” horoscopes:

1. *March 5, 1950; 2:10 AM, EST; N.Y.C. 41N-74W*
2. *June 21, 1950; 8:00 AM, DST; Boston 42N-71W*
3. *August 24, 1950; 00:04 AM, DST; Santa Fe, N. Mex. 36N-106W*

The ephemeris pages and the relevant pages from the *Tables of Houses* and *Tables of Diurnal Planetary Motion* for all calculations to be done in the three test horoscopes are contained in the appendix to this volume. The completed horoscopes are also in the appendix.



## 6

# Calculation Review

By now, the procedure of constructing the horoscope, following rules, should be pretty secure. By not overexplaining the “why” of the corrections, in sidereal time for example, we hopefully got you into the mechanics of horoscope construction before you were overwhelmed with abstract time concepts and astronomical jargon. We have tried to present the procedures in a do-as-we-do fashion. But now we can ask some questions and explain some of the considerations further.

*Sidereal Time Corrections.* The corrections for Sidereal Time were studied from pages 10-27 We must make these corrections to convert man’s time to star time. There are certain so-called “fixed stars” in the heavens with very small movement which provide us with seemingly stationary reference points. But the Earth’s rotation on its own axis while it orbits the Sun complicates our perception of these reference points. When the Earth turns once in one day, the Earth itself is approximately one degree further along in its orbit around the Sun. Our

vantage point of the heavens is slightly changed. *The heavens* seem to have moved one degree in the other direction. Actually, this means that we've moved one degree further in Earth orbit in the opposite direction around the Sun. As a result, bodies in the heavens come back to our reference points a little earlier each Earth-day. Sidereal hours, days, years are shorter than Earth hours, days, and years. Sidereal positions then, based upon time and motion relative to the Earth, are different than man's time in his motion upon the Earth.

The sidereal year accumulates these daily discrepancies so that, overall, the sidereal year is 366.25 days, as opposed to our year of 365.25 days. The discrepancy is approximately 4 minutes per day. The star reference point "gains" on our relative observation position about 4 minutes of time a day. In that day, the Earth is about 780,000 miles further along in its orbit around the Sun. If the Earth did not orbit, but remained stationary in space while rotating on its own axis, Earth time would become the same as sidereal time.

Our ephemerides give us the sidereal times at noon for every day. We add or subtract the interval of the birth time. Then we make a correction of 10 seconds per hour of this interval. This correction begins to bring star time and Earth time together: 10 seconds per hour x 24 hours gives 240 seconds or 4 minutes. And four minutes is the daily discrepancy between sidereal time and Earth time.

The fourth and fifth lines of our sidereal corrections involve man's longitude arrangement on Earth. The first



correction is 10 seconds per time zone, i.e., per hour. This is the same “10 seconds,” so to speak, used in the elapsed time correction in the third line of our corrections, explained in the preceding paragraph. In working with circles, we must create our own starting point. On Earth, we have chosen Greenwich (for an astronomical reason discussed in chapter 9) for our point of  $00^\circ$ . Our time zones are measured in hours, one hour per  $15^\circ$  of longitude. The discrepancy between sidereal time and Earth time is 10 seconds per hour (4 minutes per day). So we make this correction here in reference to the time zone where birth occurred.

The fifth-line correction really seems to confuse most students. We have discussed “bringing the sun to the meridian,” i.e., making a 4 minute (sun’s time to move  $1^\circ$ ) correction per degree separating the sun’s position over the birth location and the central meridian of the time zone in which birth occurred. If we had to bring the sun “back” to the central meridian of the time zone, we *subtracted* the correction. If we had to advance the sun forward to the central meridian of the time zone, we *added* the correction.

Seldom in textbooks do we find this important correction explained, let alone taught and used! It *is* important. It gives us the *true local time of birth*.

You know that if a birth occurs on a central meridian of a time zone, there is no correction to make: for example, Philadelphia at  $75^\circ$  west or Memphis at  $90^\circ$  or Denver at  $105^\circ$  or Reno at  $120^\circ$ . We

know that cities to one side or the other of the central meridian within the time zone require a correction: Boston at  $71^\circ$  west is  $4^\circ$  away from the  $75^\circ$  central meridian (corrected  $4m \times 4^\circ = 16m$ ); New York at  $74^\circ$  west is  $1^\circ$  away from the  $75^\circ$  central meridian (corrected  $4m \times 1^\circ = 4m$ ); and San Francisco at  $122^\circ$  west is  $2^\circ$  away from the central meridian in the Pacific Time Zone ( $4m \times 2^\circ = 8m$ ).

To explain, let us take a birth at 6:30 PM in New York, one degree before the central meridian, and a birth at 6:30 PM in Philadelphia, exactly on the central meridian. Both New York and Philadelphia base clock time upon the  $75^\circ$  meridian in the Eastern Time Zone. Although the clock in the hospital in New York *and* in Philadelphia will register 6:30 PM at the time of birth, because they are in the same time zone, *the birth in New York really occurred 4 minutes earlier than the birth in Philadelphia!* The sun had yet to come to the  $75^\circ$  meridian. *By the sun*, the birth in Philadelphia occurred 4 minutes later.

When we computed the corrected sidereal time for New York at 6:30 PM, March 23, 1950, we got S.T. 6-37-32. When we compute the corrected sidereal time for Philadelphia for the exact "same" birth date and clock time, we get 6-33-32. The baby in New York is four minutes *older*, born four minutes *earlier*. The fully corrected sidereal time reflects the *true local time* of the birth.

A key word here is “local.” The time zones are man’s own constructs. They are arbitrarily constructed every 15 degrees at central meridians, with land areas  $7\frac{1}{2}$  degrees to each side of the central meridian using the same central meridian for time reference. Man must do this, or communications and travel schedules would be chaotic – but in *our* work, we must correct the discrepancies *within the time zone*.

Our theory says that time is accumulated 4 minutes for every degree westward (1 hour in  $15^\circ$ ). When we get to the  $75^\circ$  meridian, the central meridian of man’s Eastern Standard Time Zone, 5 hours are accumulated west of our starting place in Greenwich ( $4m \times 75^\circ = 300m$  or 5 hours). Although all clocks within any set time zone will measure the same clock time, the true local time is different to the extent of 4 minutes per degree in either direction from the central meridian of the specific time zone – indeed, a difference for every mile, or foot, or millimeter!

Therefore, *we must adjust the relativity factor within man’s time zone*. On the central meridian of a time zone, there is no adjustment: the longitude adjustment to the meridian already takes care of it. It is the relativity factor  $7\frac{1}{2}^\circ$  either side of the central meridian within man’s arbitrarily expanded time zones that demands adjustment for true local time.

The “same-moment birth chart” (not same local clock-time) tells the story clearly (page 116). Study it carefully. Note how the corrected sidereal times *on* the

**SAME-MOMENT BIRTH      MARCH 23, 1950**

read right to left: *Westward*

| Pacific Standard<br>120°<br>Central Meridian |               | Mountain Standard<br>105°<br>Central Meridian |                 | Central Standard<br>90°<br>Central Meridian |                 | Eastern Standard<br>75°<br>Central Meridian |                | City<br>Longitude West<br>Zone difference interval US<br>Clock-time Zone<br>Greenwich difference<br>Local Birth-time |
|--|---------------|---|-----------------|---|-----------------|---|----------------|--|
| San Francisco<br>122 W                       | Reno<br>120 W | Santa Fe<br>106 W                             | Denver<br>105 W | Memphis<br>90 W                             | Chicago<br>88 W | Philadelphia<br>75 W                        | N.Y.C.<br>74 W |  |
| -3H  |               | -2H   |                 | -1H   |                 | 0   |                | Zone difference interval US  |
| -8H  |               | -7H   |                 | -6H   |                 | 5H  |                | Clock-time Zone<br>Greenwich difference  |
| 3:30 PM                                      |               | 4:30 PM                                       |                 | 5:30 PM                                     |                 | 6:30 PM                                     |                | Local Birth-time   |
| 2° (-8m)                                     |               | 1° (-4m)                                      |                 | 2° (+8m)                                    |                 | 1° (+4m)                                    |                | Distance to<br>Central Meridian  |
| 3-25-32                                      | 3-33-32       | 4-29-32                                       | 4-33-32         | 5-33-32                                     | 5-41-32         | 6-33-32                                     | 6-37-32        | Corrected Sidereal Time  |
| 8 minutes<br>Younger                         |               | 4 minutes<br>Younger                          |                 | 8 minutes<br>older                          |                 | 4 minutes<br>older                          |                | Time (age) relativity within<br>man's Time Zone<br>— True Time locally —   |

central meridians decrease one hour per time zone, perfectly in order. The relativity factor *within* the time zones is reflected in the earlier (older) births at the same "clock moment" in New York than in Philadelphia, in Chicago than in Memphis; and the later (younger) births in Santa Fe than in Denver, in San Francisco than in Reno.

A few months from now, after many, many horoscopes, when you are no longer worried about the *technique* of construction, all the *theory* of construction will fall into place easily.

*Eastern Longitude.* The longitude divisions proceed eastward from Greenwich just as they do westward: every  $15^\circ$  marks a change of one hour. Wars and occupations of one country by another sometimes upset time zone standardization. Astrologers have the superb research work done by Doris Chase Doane to guide them: *Time Changes in the World*.

Standard GMT is one hour earlier than mainland Europe which applies to the  $15^\circ$  central meridian *east*. Because we are going eastward against the path of the sun, we must *subtract* our longitude correction. This is the only change in the sidereal time correction process. The "sun correction" on our fifth line always follows the same rule and theory in both longitudes: subtract if the sun must be moved eastward to the central meridian; add if westward to the central meridian. Here is an example: birthday March 23, 1950 at 6:30 PM in Düsseldorf, Germany; latitude 51 north, longitude 7 east.

|      | H     | M  | S    |   |
|------|-------|----|------|---|
|      | 0     | 01 | 37   | S.T. March 23, 1950   |
| + 6  |       | 30 | 00   | Hours <i>after</i> noon: <i>add</i>                                   |
|      |       |    | + 65 | Elapsed time correction: 10s<br>per hour                              |
|      |       |    | - 10 | Longitude correction; 10s per<br>zone; <i>east</i> : -                |
|      |       |    | - 32 | Sun correction: 4m per degree;<br>to 15° meridian <i>eastward</i> : - |
|      | <hr/> |    |      |   |
|      | 29    | 59 | 92   |   |
| or   | 29    | 60 | 32   |   |
| or   | 30    | 00 | 32   |   |
| then | 6     | 00 | 32   | <i>Corrected Sidereal Time</i>  |

The borrowing procedure in the calculation is a little complicated here: we must borrow one hour for the minutes column, but we have zero hours. We add the full sidereal cycle of 24 hours to the 0 hours, giving us 24 hours. Then we borrow one hour for the minutes column, giving 61 minutes, leaving 23 hours in the hours column. We add six hours to it and get 29.

Now, there is a much quicker way to have done this: we could have borrowed the one hour from the "6" on the second line of the hour column and not needed the full cycle (which we only have to subtract again at the end).

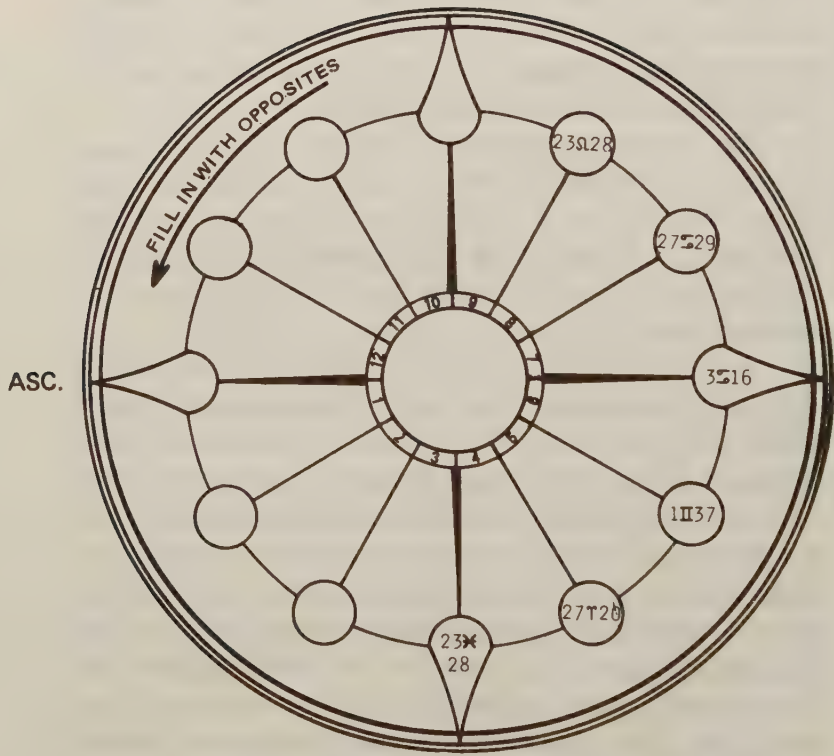
With the corrected sidereal time, we enter the *Tables of Houses*. Be sure to look up the proper *latitude*.

The changes in the planets' positions are computed exactly the same way as with western longitude — *but pay very close attention to the determination of Greenwich*

*Mean Time!* Europe is later than Greenwich, i.e., the sun is over Europe before it is over Greenwich in England. Therefore you *subtract* the number of time zones between Greenwich and the place of birth to find the time in Greenwich. European clock time, on the 15° central meridian, is one hour later than clock time in England except during spring and summer, when England adopts DST. *The ephemeris is always standard GMT.*

Here are some examples: 6:30 PM in Germany, based on the 15° meridian for its time reference, is 6:30 minus 1 time zone or 5:30 PM in Greenwich. For planet placement, you would add the motion in 5 hours and 30 minutes to the noon positions listed in the ephemeris for the birthdate.

A birth precisely at noon in Israel, based on the 30° east meridian for its time reference would give a GMT by the subtraction of 2 hours (2 time zones) from the local clock time, 12:00 noon. The GMT would be 10:00 AM. The computations then would be made from the preceding noon, the day before the birth date. The elapsed time after *that* noon would be 12 hours to midnight and then 10 more hours into the morning of the birth day; a total of 22 hours from the preceding noon for the correct planetary positions. If the birthdate and time were June 15 at noon in Israel, we would use the planet positions at noon on June 14 plus 22 hours. So much harder to write about than to do! Again, the problem is only familiarity with geography, time zones, and the calculation rules.



SOUTHERN LATITUDE



*Southern Latitude.* To construct a horoscope of a birth below the equator in southern latitude, there are only two small, simple changes of procedure: first, compute the sidereal time in the normal fashion for west or east longitude. *Then add 12 hours to the sidereal time as a final correction.*

*Second: Go into your Table of Houses* in exactly the way you have learned but *reverse everything* so that you place the degree and sign of the Mid-Heaven *onto the 4th House cusp*. If we had a S.T. of 23-36-20 at a southern latitude of 21, we would see the MC listed as 23 ♋ 28. We would place this degree and sign on the

*4th House cusp*. The 11th house listing would be placed on the 5th House cusp (27 ♏ 20), and the 12th on the 6th, etc.. Then place in the opposite signs and degree numbers to complete the circle. You can check your work through the Sun position as explained on page 149.

|      |       | 23h 36m 0s |       | 354° 0' 0" |       |
|------|-------|------------|-------|------------|-------|
|      |       | 23 ♋ 28    |       |            |       |
| LAT. | 11    | 12         | ASC   | 2          | 3     |
| 0    | 25 53 | 26 19      | 24 30 | 22 13      | 21 37 |
| 5    | 26 12 | 27 28      | 26 29 | 23 27      | 22 3  |
| 10   | 26 32 | 28 40      | 28 31 | 24 41      | 22 29 |
| 15   | 26 53 | 29 57      | 0 37  | 25 56      | 22 55 |
| 20   | 27 15 | 1 19       | 2 49  | 27 13      | 23 22 |
| 21   | 27 20 | 1 37       | 3 16  | 27 29      | 23 28 |
| 22   | 27 24 | 1 54       | 3 44  | 27 45      | 23 33 |
| 23   | 27 29 | 2 13       | 4 12  | 28 1       | 23 39 |
| 24   | 27 34 | 2 31       | 4 40  | 28 17      | 23 44 |
| 25   | 27 39 | 2 50       | 5 9   | 28 33      | 23 50 |
| 26   | 27 44 | 3 9        | 5 38  | 28 50      | 23 56 |
| 27   | 27 50 | 3 29       | 6 8   | 29 7       | 24 2  |
| 28   | 27 55 | 3 49       | 6 38  | 29 24      | 24 8  |
| 29   | 28 1  | 4 10       | 7 9   | 29 41      | 24 14 |
| 30   | 28 7  | 4 32       | 7 40  | 29 59      | 24 20 |



## Introduction to Part Two

We have studied all there is to basic horoscope construction. We have drawn three precise horoscopes. For the most part, this is where calculation ends and the art form of astrology begins.

In the pages that follow, the signs will be restudied and the interrelationships among the signs will be introduced. You will read new word-symbols. At the beginning, they will sound arcane and without any immediate practicality — but be assured, nothing impractical or extraneous is discussed. The bare concepts are put forth which, with familiarity and expansion, will enable you to begin analysis of the horoscopes you have already done and any horoscope you will ever do. Your full scope of technique in astrology will begin to develop from this point forward, through the volumes of this series.

Calculation remains the same through centuries. Symbology is continuously enriched through experience and thought. The drama of mystery is that its veil rises slowly. — Welcome.



## 7

# The Sun and the Signs

All belongs to the Sun. The planets in the system of our Sun cling to that Sun perpetually. All that lives, all that has form, all that fills the air, even the air itself pays homage to the Sun, to the center of energy, life, and time. We exist as we are because of our distance from the Sun. We cannot imagine life in our terms elsewhere in the solar system because the distance from the Sun is different elsewhere. The Sun is the catalyst of the chemical activity on our Earth that sustains life, that made it possible. Man worships the Sun in many ways. The Sun pervades man's life and experience all ways.

Astrology too revolves around the Sun. The process of analysis begins with the life-energy that is the Sun. Where and how does man shine in his life on Earth? This is the quest of the astrological portrait. Man is a kind of planet himself . . . or, better, a satellite very close to Earth, dependent upon Earth for his position within the system.

When man is born, the Sun takes a position in his being. Astrology describes this position in terms of the zodiac. When we map this position in relation to man's

birth time and place, the Sun's position is focused further into a particular department of life experience and a particular mode of expression. When we place the positions of our Sun's planetary system into the horoscope, the focused life-energy takes on complex distribution. Through the horoscope, we see man within the system of his Sun.

More mundanely, let us imagine a tall modern apartment house. In the basement of the building is the building's sun: the furnace. The furnace must heat the entire building. Hopefully, the heating system will be efficient: the first and second floors will receive even heat energy as efficiently as the tenth and eleventh floors. Any breakdown in efficiency in the furnace or through the pipes that connect the apartments (the houses) will effect life and contentment. Instinctively, man fears the lack of heat. His moods vary with the heat of his house. Vacations are planned to follow the Sun. Springtime, the intensification of the Sun in our Northern Hemisphere, brings joy, celebration, and bloom.

When we place the Sun into the horoscope, we place it into a house, a specific department of life experience — the foundation of the apartment building. The Sun's energy must maintain life in all twelve sectors. The planets will distribute the energy throughout the complex. Analysis in astrology is the measurement and understanding of this energy in distribution.

We have seen that the house cusps will determine where the Sun, in its position corrected for the time of

birth, will be located. Immediately, the Sun begins to send its energy throughout the particular horoscope. The Sun in the VII House is a different kind of energy than the Sun in the VIII House. This we will study in the second volume of this series.

But at this point, we must study what *kind* of energy the Sun has. What is the fuel of the furnace – its brand name? We study this by sharing the observations of hundreds of centuries, by seeing how man acts *generally* in his life, how he shines. The Sun in Aries is a quite different kind of energy than the Sun in Pisces.

There are many books written about the Sun-Signs: “The Sun in Aries means this and that.” Some are marvelous: Evangeline Adams’ *Your Place in the Sun* and Isabelle Pagan’s *From Pioneer to Poet* are quite poetic; Dane Rudhyar’s *The Pulse of Life* offers an intellectual approach; Linda Goodman’s *Sun Signs* is an expansion of the details inherent within Sun-Signs. This writer does not claim to offer an absolute distillation of Sun-Sign energies in the terse descriptions that follow. But the pages ahead will acquaint you with the identity of each sign’s life energy, and you yourself will embellish this symbolic knowledge through your own observation and reading. In the end, it is not a description of colors that makes a painting beautiful; it is the Light of their use.

### The First Quarter

*The Sun in Aries.* Aries is the first sign of the zodiac. It is the beginning of spring. Plants break through the crust of

winter to reach for the Sun. The spring brings with it a kind of inspiration, which we might say is symbolized by the inverted half-moons forming the "ram's brow" in the symbol of Aries. Energy pours into the Arian: it is channeled from above through a sceptre of authority and impulse. There is the new, welcome, and keen heat of effort. The Arian feels his oats. He assumes authority quickly.

The impulse is to "ram" ahead, to reach, to grasp, to take responsibility. Caution is thrown to the winds. The energy is so joyous, so bounding, that momentary failure or mistake is quickly forgotten.

With all the signs, there seems to be two levels at which the energy manifests itself: positive or negative, evolved or unevolved, active or passive. In this direction, astrology perhaps seeks to understand reincarnation principles. The energy is there; perhaps to use it negatively is part of a person's karma. This negative distribution can be seen in the alinement of the planets within the horoscope; perhaps to use it gloriously is part of a person's karma as well: a reward for lives well lived.

In all cases, the energy and its distribution are the highest in Aries of all the signs. We have the impetuous leader, the impassioned arguer, the inspired force within group activity. The word "thrust" is a salient key. Arians have a thrust of their person upon their world. The most important point is to put the Self forward. The ambition is higher than the scope of preparedness is broad.

Mars is the ruler of Aries. The color red is closely



identified with this sign and planet. People born with the Sun in Aries often have red hair, flushed complexions, slightly pointed chins. Invariably, they have a drive and thrust that put them forward quickly and dramatically. Leadership is more important than follow-through.

If you know an Arian who does *not* show these traits, it does not disprove what we are describing. Quite the contrary: the energy is *there*; it is the distribution of it that demands study of the whole horoscope.

The cusp labeled Aries will have the Sun near it, of course. The cusp marks a vitally significant, richly symbolic area of life-experience (the beginning of a house). The Aries intensification at any particular cusp will bring Aries energy to a powerful focus in that house. It could mean public presentation (VII), professional leadership (X), work or sickness (VI), self-undoing (XII), sex and creativity (V), money (II), travel or writing (III), etc. (Full explanation of the houses is in Volume Two of this series.)

If the Aries energy is disturbed by a relationship with another planet, the distribution problems from the Sun will show up in the individual. The house position — the apartment of the building — will tell us in what department of life the problem is/will be. Sicknesses most associated with Aries and Mars are headaches, sinusitis, operations, injuries to the head.

Each sign has its particular challenge or cross to carry that makes growth possible. With Aries, it is energy: how to get it out, how to use it economically, how to make it significant. The drive toward independence is extreme and

sometimes problematic. Originality can save the day; egoism can ruin it. The energy is radiant. In the dynamism of the horoscope portrait, the energy seeks audience, recognition, and rest. The astrologer helps discover the way.

*The Sun in Taurus.* In the discussion about calligraphy and symbology, we learned the steadfastness of Taurus, the Bull. Security and structure are most important. The energy has broken out into the wide-open in Aries and, in Taurus, strives to maintain form, to guarantee the status quo. To interfere with this security, this organization, provokes the retaliation of temper.

The fixed quality of Taurus keeps the peace. There is an appreciation of aesthetic balance. The Taurus energy keeps this peace until threatened, then the bull is loose. With the image of security comes the dimension of material gain, building financial security.

The instincts are very deep and self-contained. Sometimes the energy is unyielding, obstinate. There is much below the surface in the Taurean. Yet, rulership by Venus keeps the surface unthreatening and unassuming.

Self-preservation and cautious, structured self-fulfillment best typify the goals of Taurus energy. Where Taurus is found in the cuspal arrangement of the horoscope, the Sun brings this energy to interpersonal relations (VII), friends (XI), finances (II), children and teaching (V), the profession (X), etc.

Negatively, the bull can leave the peaceful pasture

and enter the cluttered china-shop. He can be argumentative, stubborn, selfish – and the horoscope would show the reason and focus of frustration. Positively, obstacles would generate reorganization and renewed activity.

Overall, where the Arian is heated and steaming, perhaps ungrounded, the Taurean is practical and anchored, surely set. Turquoise or green may be his favorite color, but an explosion of red is right around the corner. In sickness, the weakest areas for the Taurus might be the throat or chin. The body can be stocky and square. Yet, throughout all this stolid, ardent holding of security, the strain of gentleness and appreciation for beauty are strong.

*The Sun in Gemini.* The energy of the Sun in Gemini is swift, fleeting. It makes diversity possible, essential – and problematic. The energy wants challenge ever-renewed. Boredom is the great enemy. Constant activity is needed as outlet for this untiring flow of energy. Concentration is elusive.

Indecision so often plagues the Gemini: he cannot decide between his many possibilities. He gathers people around him to help make choices. Too many activities can make him always late. His mind moves so quickly from subject to subject that he tends to finish other peoples' sentences for them. He exhausts his environment, yet needs it desperately. He relies on his sensitive nervous system.

There is a fascinating duality about the Gemini energy. Almost invariably, when Gemini occurs on the tenth cusp (professions), the person will have more than one profession. When the energy distribution is problematic and sickness occurs, the Gemini's most vulnerable areas are his lungs, arms, and hands.

The multiplicity of the Gemini's interest usually finds expression through his hands. His intelligence and social vivacity often incline him to excellent linguistic ability. The Gemini always has something to say and sometimes he can say it superbly, usually quickly, surely with wit.

The versatility of the Gemini often breaks many of society's rules. Here is the restless child, the vagabond adult, the shiftless worker, the bundle of nerves, the comedian, the orator, the travel agent, the interpreter. At best, the energy enlightens in its enormous variety; at worst, it dissipates kaleidoscopically without focus.

If you know a Gemini who does *not* show these traits, the energy is still there: it is distributed by the other factors in the horoscope. This is important to remember with *all* the signs.

With the first three signs, we have covered one quarter of the zodiac. It is time now to introduce one of the two "Family" concepts of signs that are extremely important. We will refer to them again and again throughout the entire series of our study. The two Families are the foundations of all the deductions of the ancients. They are cornerstones of mystery and

enlightenment. We will build with them a tower of awareness.

### The Quadruplicities

The first Family is comprised of three groups of four signs each, called the *Modal Quadruplicity* (mode: how the energy is expressed). The three groups within the Quadruplicity are called *Cardinal*, *Fixed*, and *Mutable*. These groups alternate around the circle: Cardinal (♈), Fixed (♉), Mutable (or changeable or common) (♊) — then begin again: Cardinal (♌), Fixed (♍), Mutable (♎) and so on. Now that you have memorized the circle of signs, Aries through Pisces, always think of the signs in the relative positions shown on the diagram (p. 134), beginning with Aries at the ascendant, on the first cusp — then Taurus on the second — Gemini on the third, etc. This makes the Quadruplicity groupings easy to remember: the first, fourth, seventh, and tenth Signs (on the cusps with those numbers) are the Cardinal signs (East, North, West, South); the second, fifth, eighth, and eleventh Signs are the Fixed Signs; and the third, sixth, ninth and twelfth Signs are the Mutable Signs. Each Sign in each Family is three signs further on.

We know that Aries begins the Astrological Year. That is why we place Aries on the first cusp, the ascendant, the horizon, for our general examples. (We begin the Astrological Year at the vernal equinox, when the Sun enters the first degree of Aries.)

We know that, for every horoscope we draw, the

## MODAL QUADRUPLICITIES



CARDINAL-FIXED-MUTABLE  
*Squares and Opposites*

cuspal arrangement will be different. Some alinements will be similar, and sometimes Aries will be “rising” on the ascendant. But *wherever Aries is found, it is always a cardinal sign*: the signs never lose the special characteristics of their basic quadruplicity grouping.

The Cardinal signs (♈♉♊♋) express a mode of energy expression that can be summed up by “active.” The energy goes out; it initiates, leads. Be aware of this mode, this characteristic of energy expression as you learn to understand the four Cardinal signs.

The Fixed signs (♌♍♎♏) express a mode of stolidity. They resist change, stand fast, stay put in terms of energy expression.

The Mutable signs (♐♑♒♓) express a mode of reaction to stimulus, adaptability, interchange. The Mutable signs register effects, rarely initiate causes, seldom hold fast.

*The “square” relationship – that between signs of the same mode – is disruptive: two similar modes of expression or distribution clash. The “opposites” in the same mode complement or clash as well.*

We will add the second Family shortly. But see now the truly distinct modal differences among the signs. Try to see it in the calligraphy: the Mutable signs show flexibility, the Fixed signs show settledness, and the Cardinal signs show distinctly specialized activity. Read

the descriptions of Aries, Taurus, and Gemini again with this in mind.

### The Second Quarter

*The Sun in Cancer.* Cancer is a Cardinal sign. The active force is the emotions, planning for security, demanding recognition of feelings, defending the position. Where Taurus holds fast, the feelings of Cancer energy flow outward to achieve the image of emotional fulfillment. Self-images can become distorted in the process, so important is the quest on behalf of the Ego. — In the “square” relationship with Aries, for example, the two Cardinal signs (modes) clash. Cancer is “watery” where Aries is “fiery.”

The temperament is romantic, indulgent, woundable. Ruled by the Moon, the phases of mood are often dramatically marked. The Cancerian “administers” the emotions for personal security. At its highest efficiency of expression and distribution, the energy is ideal for nursing, doctoring, teaching, mothering: the instinct of giving and caring fulfills the concept of self-esteem. At its worst, the energy sensationalizes or blurs the Ego to serve a frustration: prostitution of the emotions, alcoholic camouflage.

There is a tremendous caring within the Cancer. The home is the foundation. When security is promised, anything appeals. An appeal to the emotions is extremely successful and can be seen throughout a spectrum from tears to reliance upon the psychical. In true Cardinal



nature, the Cancerian uses the emotion, the feelings, the tears, the highest planes of spirit to achieve union with others, express the Self, and protect the home.

With Cancerian energy, there is a higher liability to disease, especially through the emotions. A fleshiness can “protect” the outer body. Overeating emotionally is often a real concern. The stomach, the breasts, the ovaries are important Cancerian points in consideration of health. — Symptoms are easily exaggerated emotionally. The colors: silver, white, dark blue.

*The Sun in Leo.* “Long live the king!” The energy here is dynamic, solar. In honor of the ruler Sun, the energy instinctively desires public acclaim and approval. As a Fixed sign, Leo stands high on a pedestal and surveys the surrounding fields. Magnanimity, warm-hearted generosity are given to the people, as long as the pedestal is high and the dominance assured. Yet, assumption of a lofty position can lead to the downfall of any shining leader unless he produces what he promises.

The energy distribution can manifest as an inspiring leader or a show-off. The range is as great as the energy potentials are vast. The self-reflection can be so true and vivid that arguments, suggestion, ramifications never see light. In Leo, the dimensions of theatricality are very strong. Applause is the way to the Leo heart. — The square similarity with Taurus (two Fixed signs) would clash: the energies have different natures but *similar* modes of expression. Maybe “likes” do repel as in a magnet!

Overwork and overachievement are difficulties for the Leo, depending on the need shown in the rest of the horoscope. The heart and spine are the parts of the body ruled by the Sun in Leo. The colors: orange or yellow.

*The Sun in Virgo.* As a Mutable sign, Virgo energy shares a mode of expression with Gemini (and Sagittarius and Pisces). Both Virgo and Gemini are ruled by Mercury. The duality concept is not so strong in Virgo. The intelligence takes on a marvelously discriminating or sharply critical faculty that is very keen and applies it to every variable separately. The Virgoan rarely misses a trick, remembers prices to the penny, dates and names to the letter. Yet, the details can supplant enthusiasm for the whole.

The Virgo is a tenacious worker, capable of extreme self-denial en route to the idealized goal. The “reason” for Virgo energy seems to be finally to find that goal through life work, to “make it.” With a task or goal, the Virgo excels. Without a task, without an ordered way, the Virgo energy loses focus and gives entrance to nervous introversion, sadness, gloom, and critical acidity.

Often, the part of life shown to others can be ordered to the extreme, overdetailed, overclean; the private part – the dresser drawers – can be totally messy and confused. The line followed by the energy in Virgo is the *waiting for the ideal*, for “rescue,” for a new goal.

Browns and rust-orange are preferred by Virgo (sometimes dark blue). The intestinal tract, bowels, and nervous system are important considerations for the Virgo.

In matters of health, the Sun in Virgo can become overly attentive giving fine health or hypochondria. The diet is very important. – There is a fondness for animals, pets.

### The Polarities

With the first six signs, Aries through Virgo, we have completed the first half of the zodiac. We have discussed two Cardinal signs (♈♉), two Fixed signs (♌♍), and two Mutable signs (♎♏). The next six signs will be the signs opposite the first six; the second group will be dynamic complements of the first group. – To complete the basic picture of these dynamic interrelationships, we must learn the simple groupings of signs within the second extremely important Family called the *Elemental Triplexity*: Fire, Air, Water, Earth; three signs to each element.

### The Elemental Triplexities

*The signs in the Elemental Families show particular "natures" in their energy potential: Fire – inspirational; Air – social; Water – emotional; Earth – practical. The development of these concepts contains all that is man.*

The Four Elements are ancient lore. Thales of Miletus (c. 610 BC) stated that all things were made of water. Anaximander criticized the cosmological theory of his predecessor by questioning the choice of one of the Elements over the others: if any one of the Elements were the basic matter of things, it would long since have overcome the others. Anaximander ordered the theory: the boundless source of all endures stresses causing a

## ELEMENTAL TRIPLICITIES



FIRE—AIR—WATER—EARTH  
*Triangles*

separation of the Elements, wet and dry, hot and cold. Their mixtures form all things. *Change* was the strife of *opposites*. Pythagoras (c. 532 BC) introduced the philosophic notions of harmony among things. Then, Heraclitus developed a new theory from these ingredients: the real world consists of a balanced adjustment of opposing tendencies. Behind the strife between opposites, there lies a hidden harmony which is the world.

The grouping of the zodiacal signs among the Elements completes the circle of interaction that is life. The following diagram is vitally important to understand all of this theory and organize the analyses of horoscopes. Stop everything and write down this small diagram. Keep it in view. Memorize it. It is the key to all further study and will be utilized in every volume of this series:

|       | Cardinal | Fixed | Mutable |
|-------|----------|-------|---------|
| Fire  | ♈        | ♌     | ♍       |
| Air   | ♎        | ♏     | ♐       |
| Water | ♊        | ♋     | ♌       |
| Earth | ♉        | ♊     | ♋       |

The Fire signs are Aries, Leo, and Sagittarius (first, fifth, and ninth signs). The Air signs are Libra, Aquarius, and Gemini (seventh, eleventh and third). The Water signs are Cancer, Scorpio, and Pisces (fourth, eighth, and twelfth). The Earth signs are Capricorn, Taurus, and Virgo (tenth, second, and sixth). These Elemental Families are closed circuits: their harmony one with another is shown

in perfect equilateral triangles within the circle of life (see page 140).

As we have seen, the modes (quadruplicities) relate the *opposite* signs and the signs at *right* angles (squares). Connecting all Cardinal signs, all Fixed signs, or all the Mutable signs, we get large squares within the circle. Connecting all the signs within each *Element*, we get large triangles within the circle. The interrelationship among all the signs within these patterns is the basis upon which analysis becomes possible.

*The nature of the square has an angular tension. The nature of the triangle has a harmonic completeness.* We can see this in our sign descriptions so far: Aries (Fire) and Leo (Fire) have natures which are quite similar, mutually understandable (part of the Fire triangle). Yet, the mode of distribution or expression, the ways the energies get out, uncovers quite a difference: the Aries (Cardinal) drive and thrust; the Leo (Fixed) assumption and self-sufficiency, for example.

Think of the signs always in the Family groupings Cardinal—Fixed—Mutable: a Cardinal sign takes the Element-energy (Fire, Air, Water, Earth) and uses it actively in the “cardinal” mode; a Fixed sign takes the Element-energy and holds it fast; a Mutable sign takes the Element-energy and reacts to it variously.

The beauty of astrology is really in the symbolism. Its richness is able to encompass the separative stresses, the harmonies and balances of all of life. —Do memorize the

diagram on page 141. Learn to write it out quickly and see it in your mind as you study. It is the key to all that comes later.

### The Third Quarter

*The Sun in Libra.* Libra is the sign opposite Aries. The Cardinal sign of the Air Family: more diffused than fire, more permeating; more social than individual in application. The Sun's energy in Libra urges identification of the Self with as much of the world as is "suitable." Venus rules Libra (as well as Taurus), and the tastes and standards of Libra are often elegantly developed, socially and artistically. The energy here wants to please, to keep balance and peace — all to reflect upon how fine and beautiful this energy is.

Where the Fire burns a path, the Air covers all paths, merges them. Partnership aids individual assertion. Yet, when Air becomes turbulent, a hurricane is born and the balance is upset; the smooth ways can conceal a self-seeking Ego force that is lethal.

In the search for balance and homogeneity, the Libra's delay for a better tomorrow is often procrastination, not wanting to upset things as they are. When faced with practical demands (Earth) or deep emotion (Water), the meeting is often a collision (square). Sincerity is a challenge; beauty is a reward.

Blue-green is the color associated with the Libran. In the body, Libra is related to the lower spine (lumbar) and kidneys.

*The Sun in Scorpio.* The solar energy in Scorpio awakens the scorpion, the eagle, and/or the dove (p. 53). The emotions of this Fixed Water sign are very deep – almost hidden – or explosively displayed. The poise is stolid. There is a blend of materialism and spirituality that can be baffling, showing the conflict between the dynamic levels possible within this sign: the emotional, the sexual, the mysterious.

Life is extremely serious to the Scorpio. The energy here covers a tall spectrum. It is secretive and private. The Water seeks its own levels in its own lair.

The will is strong, sometimes indomitable. The emotional sensitivity (Water) about the depths of energies often denies open expression of feelings: sarcasm and sting can cover over true sentiment. The inflexibility may make for enormous self-reliance but inhibit growth. – Wherever Scorpio is found on the cusps of the horoscope, these characteristics will be imparted to that area of life.

At all times, expressed or not, the Scorpio is curious, searching. His sense of detection and scavenging is strong: to know pleases, to express frightens. – With so much potential energy, the distribution channels seen within the complete horoscope are essential to analyze the performance of this Scorpio energy in particular.

The goal of life philosophically would be regeneration, coming to grips privately with the mysteries of the world and life. The areas of the body related to Scorpio are the reproductive organs. Ruled by Mars and Pluto, the colors preferred are usually red with black.



*The Sun in Sagittarius.* The arrow shot into the sky: the thrust of thought, the sky-rocket path of intellect, the higher mind. Opposite Gemini, the duality of the third sign is given more fusion in the ninth sign. Intelligence becomes intellect. The short trip becomes extended travel, mentally and physically. As a Mutable Fire sign, Sagittarius flares in reaction, the heat of the mind shooting out for philosophic, legal, or religious principal. The enthusiasms are high. The humor is aglow. The vigor of thrust is seen in exercise and out-of-doors pleasure — sport.

Sagittarius is “square” to Virgo in modal family grouping; they are both Mutable signs, 90° apart: the Sagittarian energy soars above the discriminating stop-and-go energy of the Virgo. In the Sagittarian, the value judgments are made instantly, easily. The energy here is the same impulse of Aries, the authoritarian glow of Leo, combined in a fleet, streamlined thrust into the world.

The Sagittarian energy is idealistic, but the speed of the energy can bring superficiality. The long-haul is repellent. The swift stroke is preferred. The hunt is more enjoyable than the kill.

Jupiter rules Sagittarius. The color is usually dark blue. Sagittarius is related to the hips and thighs in man.

### The Fourth Quarter

*The Sun in Capricorn.* The Cardinal sign of the Earth Family is the gateway of specialized ambition and austere energy. Time, order, precision, respect, and clarity are prime concerns. The energy is down to Earth.

Capricorn begins on the longest nights of the year. Melancholy and morbidity are always ready to darken the energy. The energy attacks or retreats sensitively, in patience for the long-range goal. Saturn rules Capricorn. Saturn is time. The color is black.

Distribution of the energy is at best executive, at worst tyrannical. The energy seeks a strategic self-importance.

As the sign opposite Cancer, the practicality of Capricorn administers the emotions with cold care. Within the same Family as Taurus and Virgo, the strong persevering application of energy in structured work is powerfully focused. In square to Aries and Libra, the Capricorn energy is singed by speed and flare, dried up by static balance.

The knees, bones, muscles, and joints are related to Capricorn. The energy of the Sun in Capricorn is built upon a lean skeleton.

*The Sun in Aquarius.* As the Fixed sign in the Air Family, Aquarius is related to Gemini and Libra. The gregariousness of Gemini and the social instincts of Libra find fixed focus in Aquarius: the application to humanity, to large numbers of people, friends. The Aquarian energy creates gifts for the world — or, in poor distribution within the horoscope, expects gifts from the world. Invention, intellectual or humanitarian service, unique development of individuality are the ways in which Aquarian energy relates to the world at large.

Sometimes, the scope of potential service is too vast for the system of energy distribution, and guilt occurs; the individuality becomes suppressed and seeks unusual identity confirmation elsewhere, at a different level.

Aquarius is ruled by Saturn and Uranus. The thrust of energy is ahead of the times. The Aquarian can be the all-around man leading his friends, his society. Optimism abounds. Aquarian energy carries with it tremendous self-respect and respect for others, focused in the capacity for friendship. The inspirational bent comes from the high level of energy above materialism.

The colors are rust and dark orange. The parts of the body related to Aquarius are the ankles, the leg below the knee, and the teeth.

*The Sun in Pisces.* The last sign of the zodiac, Pisces energy can be said to assimilate all that has gone before. As a Mutable sign in the Water Family, Pisces is eminently sensitive to receive influence – just as the next sign, Aries, begins another cycle with the vital influential thrust to become anew.

Related in the Water Family to Cancer and Scorpio, Piscean energy is grandly emotional, often psychic. The Piscean subconscious gives comfort and inspiration, a reservoir for reaction. The Piscean responds to the soul of things.

The duality of this sign works against decisiveness. The feelings wander and, when lost, adopt a form of self-pity, martyrdom to the whole of life. The Piscean will

react to an impression rather than to a rational judgment.

As the sign opposite Virgo, Pisces "understands" the meaning of the ideal and trusts the dark-blue emotional content of its energy to find the way or ways. In square to Gemini and Sagittarius (Mutable signs), Pisces has no tolerance for aimless speed. —Pisces energy seeks salvation within itself, through self-knowledge and self-effacement.

Pisces is ruled by Jupiter and Neptune. The feet, man's foundation, are related to Pisces.

### Look at the "Whole"

The modes and elements bind all together. How energy is expressed conditions the nature of the energy. There is stress; there is harmony; there is balance. The whole is more than the sum of the parts: the wholeness becomes life.

*Each identity — each horoscope — has all of the signs active within the whole.* The planets placed among the signs emphasize or depress the characteristics, the harmony, the balance. The symbol of the Sun is a circle with man within. Man becomes his own Sun upon Earth. "His" solar system lives within his horoscope, within his life.

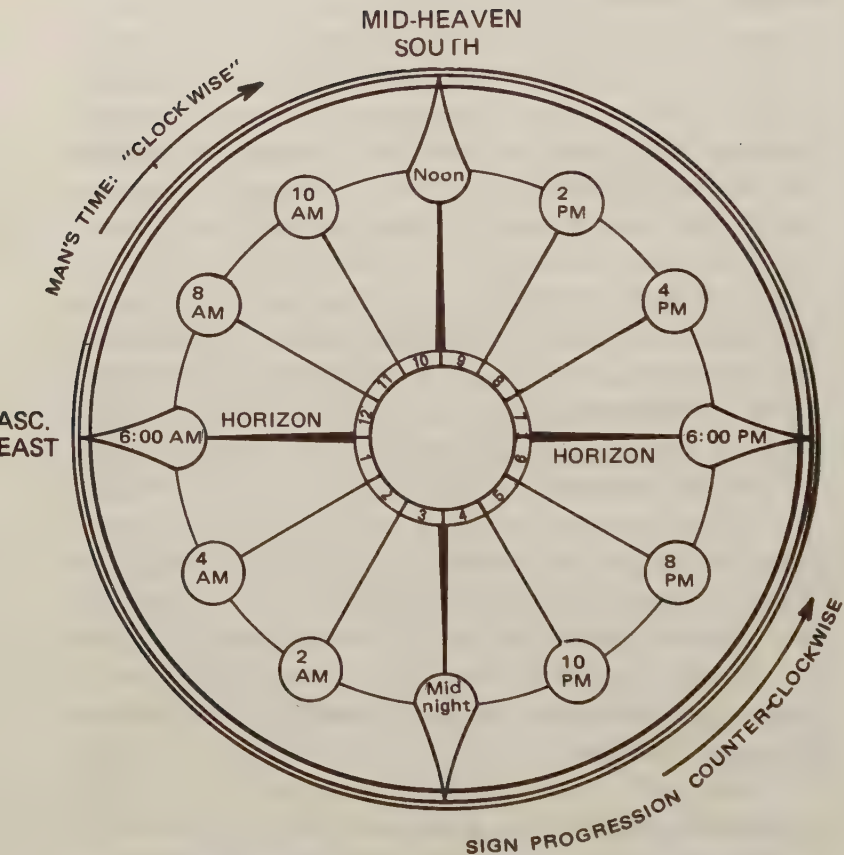
The great danger with Sun-Sign descriptions is that they are incomplete. They describe the energy, definitely, but the distribution of the energy cannot be understood until the entire horoscope is studied. In our example of the tall apartment house, we judged the furnace by how the

heat energy reached *all* the floors. A radio station evaluates the power of its transmitter by how far away and how well its signal can be received.

### Role of the Ascendant

The Sun is the beginning and the end. The solar energy is a full circle of life force. Throughout the circle there are highly sensitive points, terminals, antennae, houses that register that life force. The ascendant, for one, is crucially important. As you study the Sun Signs and begin to observe them in your own experience among acquaintances, know that any discrepancy in the basic Sun-Sign energy that you detect will be due, in great part, to the influence of the ascendant. The Aries energy of the Sun will register quite differently within a horoscope with a Capricorn or Pisces ascendant. The identity will manifest *both*. The ascendant, as we will see in detail in Volume Two, is the Self as projected to others. The Sun's core energy reaches an antenna, the first horizon at birth, the rise of identity. The energy sent and the energy received and absorbed blend to show the individuality. This is the challenge: to blend energies and potentials. It is the art and miracle of synthesis.

Naturally, the ascendant is determined by the position of the Sun, the birth time. Study the house — clock-time chart on page 150. The Sun goes around the entire circle in 24 hours. The twelve divisions, then, are approximately two hours each. We know that the eastern point, the ascendant, is sunrise upon the horizon, i.e.,



HOUSE-CLOCK-TIME

approximately 6:00 AM. We know that the zenith (south) or Mid-Heaven is the highest point above us, i.e., 12:00 noon. *The corrected birth time places the Sun.* A birth between 6:00 AM and 8:00 AM places the Sun in the XII House; between 8:00 AM and 10:00 AM in the XI House; between 10:00 AM and noon, in the X House; between 4:00 PM and 6:00 PM, in the VII House; between midnight and 2:00 AM, in the III House, etc.

If you were an Aries born at 4:30 AM or 5:00 AM or 5:30 AM, the Sun would be in the I House. Your ascendant and Sun would both be Aries. If you were an Aries born at 3:30 PM, Aries would be on your eighth cusp and Virgo would be on your ascendant. *Remember, the Sun appears to go counter-clockwise through the signs, but man's time goes "clockwise" in the opposite direction.* Think about this. It is easy, but you'll need some practice to get the feel of the principle. Knowing this concept helps you estimate ascendants very well from observation and from birthdates and times. It is also a reliable check on your work with sidereal time corrections. If the Sun position by this general rule is not located correctly when you place it into the horoscope, then something is wrong with the sidereal time that determines the cusps.<sup>1</sup> And, of course, nothing can replace the accurate computation of the ascendant. It is too important.

1. This placement may vary slightly, depending upon the disparate times of sunrise in certain latitudes.

Here are some famous people whose Sun-Signs and ascendants blend obviously:

- *Francisco Franco*: December 4, 1892; 4:30 AM; El Ferrol, Spain. Franco is a Sagittarian with a Scorpio ascendant: his burning idealism is placed upon an entire nation. The military coup was swift and flaming. In power, his person is deep, unyielding, inscrutable – often rationalized in the name of higher powers and religion.
- *Charles de Gaulle*: November 22, 1890; 11:54 AM; Lille, France. De Gaulle is precisely on the cusp of Scorpio-Sagittarius (00 ♃ 10) with an Aquarian ascendant. Again we see idealistic philosophies used to fire a nation and the obstinate maintenance of these ideals in the name of humanity. De Gaulle constantly linked himself – through his name, his programs, his rule – with *all* the people, all France: “La France: c’est moi!”
- *Abraham Lincoln*: February 12, 1809; 7:13 AM; Hodgenville, Kentucky. Lincoln was an Aquarian with an Aquarius/Pisces ascendant. Here the energy source was extraordinarily humanitarian and the work of life was to formalize sensitively an idealism for the people.
- *J. Edgar Hoover*: January 1, 1895; 7:00 AM; Washington, D.C. Hoover was a Capricorn with a Capricorn ascendant. Saturn, the ruling planet of Capricorn, was in Scorpio, certainly expanding our



synthesis to describe the man and his ambitions accurately.

- *Edgar Allan Poe* was a Capricorn, with Saturn in Sagittarius: the macabre morbidity of the Sun Sign came out through its ruler in an ambition fulfilled in literature (Sagittarius).
- *Joan of Arc* was a Capricorn with a Scorpio ascendant: a ministry of force charged by religious conviction.

If you write-in the Sun Sign on the cusp of the house — clock-time chart, you will be able to arrange the signs around the circle and determine the ascendant. Because of interceptions possible, you may be one sign off. But you will easily be able to make a choice between the two signs in question. It's fun, and it gets your mind working! Try it.

Here are some names and birth-data for you to solve for yourself, drawing the horoscopes fully (with ephemerides you will collect), or by placing the Sun by time and deducing the ascendant, as we have just discussed:

- Bing Crosby: May 2, 1904; 4:00 PM, PST; Spokane, Wash.
- Walt Disney: December 5, 1901; 00:29 AM, CST; Chicago
- Dr. Benjamin Spock: May 2, 1903; 2:00 AM, EST; New Haven, Conn.
- Robert F. Kennedy: November 20, 1925; 3:10 PM, EST; Brookline, Mass.



## 8

# The Ruling Planets

A very good question at this point is "Why do the signs 'mean' what they do?"

The signs get their meaning from the planets that "rule" them.

Through centuries of observation, to follow the paths of the gods, man correlated what he saw in the heavens with what transpired on earth. In religious lore, the planet-gods took on individual characteristics. In observation, these characteristics seemed to manifest themselves differently *from* different sections of the heavens, i.e., as the planet went through different areas of the zodiac. The planet seemed to "behave" true-to-form in one area particularly (a god giving blessing), in poor form in another, etc. Endless observations merged with religious conjecture, and a practical philosophical doctrine emerged.

For reference points, the ancients used star constellations to mark off the vault above. They were able to tell when Mars came into Aries or when Jupiter and Saturn "came together" in Leo. The constellations moved slowly, practically imperceptibly, over many centuries and


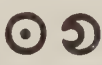








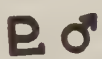





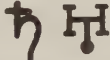

are now away from relationship with the astrological zodiac. Our projection of the zodiac is stationary.

The characteristics of the planets permeate culture and languages of Earth in many ways. Our vocabulary includes “martial, jovial, saturnine, mercurial, lunatic, venereal,” the days of the week, and many expressions that refer to the phases of the Moon and Saturn’s orbit. The number “7” which is so prevalent in Astrology is extraordinarily rich in use in languages and customs.

Each planet seems to rule one or two signs of the zodiac. Since the beginning of time in our solar system, these planets have given their characteristics to their “mansions” – naturally with man’s imaginative, empirical, and religious aid. When we study the sign – like walking into a much lived-in house – we feel the characteristics of the owner. Additionally, astrologers have deduced that a planet does not have to be *in* the sign it rules in order for its characteristics to be manifested there. And when a planet is in the sign ruled by another planet – much like a guest in your house – it “feels comfortable” or it “doesn’t feel comfortable.” The guest planet brings with it its own characteristics, and they must blend with the characteristics in the sign (of the sign-owner) – or there is stress. –Synthesizing these interrelationships is the art form of astrology. Explaining them fully is the objective of Volumes Two and Three of this series.

Up to 1781, man only knew of the Sun and the Moon and five planets (seven bodies all together). He could see no others. The Sun was given rulership of Leo and the

Moon was given rulership of Cancer. Each of the five planets ruled two signs, determined through endless observation and theory. The diagram below shows the planets in the center column and the signs they rule to either side.

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Uranus was discovered on March 13, 1781. Neptune was discovered on September 24, 1846, and Pluto on January 21, 1930. Through much thought and colloquy, Uranus was given co-rulership of Aquarius with Saturn, Neptune co-rulership of Pisces with Jupiter, and Pluto co-rulership of Scorpio

with Mars. The Pluto assignment is still under discussion: some astrologers feel that Pluto rules Aries and Mars rules Scorpio. — This kind of theoretical reversal of rulerships — Saturn ruling Aquarius and Uranus ruling Capricorn — shouldn't be viewed as an either/or situation. Think of the planets Saturn, Jupiter and Mars as having a higher "octave" in Uranus, Neptune, and Pluto. The higher octave of Saturn-Capricorn does seem to appear uranian; the higher octave of Jupiter-Pisces does appear neptunian; of Mars-Scorpio, plutonian.

Nature seems to strive for balance and symmetry.

Theorists today suggest that two more planets will be discovered to solve the "problem," to relieve Venus and Mercury of dual rulerships.

*The Sun, Ruler of Leo.* The Sun is the symbol of life-energy, vitality, health. It is the energy symbol of man's becoming, the statement of man's being. The energy of Self must shine through experience and growth. It seeks form and expression. The charge of power seeks outlet.



In analysis, the Sun specifically represents the potential of personal fulfillment, physical vitality, authority, the heart, and often the husband in a woman's horoscope. This energy is radiated from a particular sign determined by the Sun's position at the time of birth, *in terms of the sign.*

*The Moon, Ruler of Cancer.* The light of the Sun floods the system. It is given form and direction upon man by reflection from the Moon. Primal energy gains definition, manageable scope, and self-awareness through the Moon.

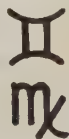


In analysis, the Moon is the symbol of the personality's form, the emotions, and the subconscious. In its phases, the Moon provides a measure of physiological and psychological changes. As reflector of the Sun's light — reflecting the light of man's energy — the Moon is the

symbol of the public's reflection of man's works. The Moon is connected with the stomach – the digestion and absorption of energy – and the breast – the nurturing of man's creations.

Collectively, we refer to all the bodies in the system as "planets," but the Sun and Moon are described most correctly as the "Lights." In establishing the symbolic meanings of the planets to man, we must refer to them from the point of view of the Earth: Venus and Mercury (and the Sun) are inside the Earth's orbit; Mars, Jupiter, and Saturn are outside the Earth's orbit – as are the trans-saturnian planets Uranus, Neptune, and Pluto. The relative positions of these planets to Earth give them meanings for man. Additionally, the planets have characteristic speeds, colors, and sizes that modify the logic of man's deductions from them.

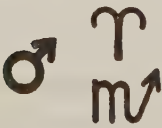
*Mercury. Ruler of Gemini and Virgo.* Mercury is closest to the Sun, moves rapidly; the messenger of the gods. It is the symbol of man's intelligence, the nervous system that stimulates his communication and his swift travel to share his message. Inside the Earth's orbit around the Sun, Mercury manifests throughout man's day-to-day activity, his early growth, his immediate family grouping: brothers, sisters, friends, social contacts. Mercury is connected with the lungs and nerves, the arms and hands . . . the tools of man's communication and first activity.



*Venus, Ruler of Taurus and Libra.* Farther from the Sun, nearer the Earth, moving quickly, Venus' path is close to man's horizon. He marvels at the planet's blue-green color shining brightly as morning or evening "star." Venus symbolically means intelligence formulated into *desire*: for natural love, sociability, attraction to others and things, communicating with beauty, finding man's reflection in the mirror of intimate society — the riches of interaction, the management of personal resources. Venus symbolically rules love attractions, marriage, desires, the aesthetic, personal vanity, finery; the flow of assimilated intelligence and awareness through man's blood.



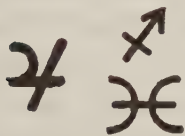
*Mars, Ruler of Aries and Scorpio.* Mars is just outside Earth's orbit. Mars is the "bridge" to the outer planets, to full awareness. The slower movement of Mars increases the impact of its significance. Its red color and religious lore created for Mars the symbolism of focused energy, enflamed desire within man's immediate environment. Theoretically, Mars, on the other side of the Earth from Venus, is an "opposite" of Venus; now, emerging outside the positions of Earth and Moon, the planets take on symbolic meanings of dynamic action *into* the world. Where Venus desired and appreciated and loved, Mars demands passionately. As a result, weapons, strife,



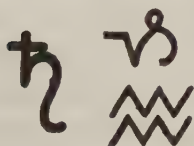


accidents, strain, operations are linked with Mars as well as enormous achievement, vitality, and incisiveness. Mars is *applied energy*.

*Jupiter, Ruler of Sagittarius and Pisces.* Jupiter is allied with Mercury: they rule opposite signs. Jupiter is outside Earth-orbit; it symbolizes the applied mind, refined in the greater scope of activity, the slower pace, the heavier weight. Jupiter is called the "great benefic," a blessing for man. It stands for the abstract (higher) mind, hope, wealth, and *opportunity*. Jupiter is expansiveness and assimilation. It rules the liver.



*Saturn, Ruler of Capricorn and Aquarius.* The orbit of Saturn around the Sun is between 28 and 30 years. The orbit of the Moon around the Earth is 28-30 days. The relationship here is dynamic indeed and, in the analysis of progressive development within the horoscope, becomes extremely important. Saturn is the Greek "Chronos": Saturn is *time* (and age), the time and patience of man's self-projection. It stands for conservatism, depression, crystallized focus in the life, the wait for things to be.

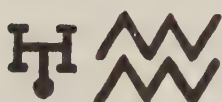


Saturn is the symbol of *ambition* in all its fluctuation: the plan, the emergence, the limitations and delay, the achievement, the wiser influences brought to

bear upon progress. Saturn stands for the structure of man's development: the beginning hot and swift (Mars), the conclusion colder and more patient — in its own time (Saturn).

Only since 1781 has man had more planets from which to learn in observational awareness, to follow in astrological deduction. That the three "new" planets, Uranus, Neptune, and Pluto, were not known for eons before, does *not* suggest that their presences were missing from man's individual and collective awareness, his personal "system." To place these planets into early horoscopes is to see fascinating corroboration of potentials. — Astrologers in the last 200 years observed the discoveries of these trans-saturnian planets (outside the orbit of Saturn) *in relation to the world situation at the time of discovery*. They are beginning to see strongly symbolic relationships among them: Uranus has an orbit period of 84 years. Pluto was discovered exactly 84 years after Neptune. The orbits of Uranus, Neptune, and Pluto are in ratio of 1:2:3. They are regarded as symbols of eras. There is as much potential for meaning with these "new" planets as with the "old." Each astrologer, every time he analyzes a new horoscope, has the opportunity to learn more about these distant planets within the individual's system.

*Uranus, Ruler of Aquarius.* Uranus symbolizes invention, lightning; the stroke of genius — suddenness;

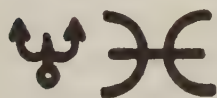


independence. Uranus was discovered at a time of revolution for independence in America, of invention and scientific discovery throughout the world.

Aquarius is an Air sign, and Uranus rulership was linked to the growth of aviation, wireless communication, space travel.

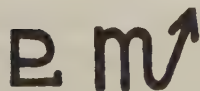
Uranus is electricity, nervous spasm, eccentricity. In a horoscope, Uranus is the emphasis upon individuality, the intensification of Self. Uranus is the planet of astrology.

*Neptune, Ruler of Pisces.* Neptune symbolizes hidden revolution, the immaterial, the spiritual, the fantastic.



The psychic elements in man seem deeply connected with Neptune. We often see correlations with confusion, losing the Self, drugs, blood complications, the veil of theatricality. — Neptune was discovered at the time of the American Civil War, the insidious upheaval of man against his brother, of blurred causes. The world was in deep quest for religious understanding, study of the human spirit.

*Pluto, Ruler of Scorpio.* Pluto's discovery coincided with the rise of world war turmoil — which has barely stopped to this day. It is the symbol of change, transformation, rejuvenation. It is often linked with the atomic bomb and with psychoanalysis.



In an individual horoscope, Pluto seems to refer to individual change and rebirth *in awareness of the masses*. There is a definite public significance to Pluto, always involving change, fluctuation, and reorganization to achieve different form. Pluto in relationship with Mercury can affect the thinking dramatically. There are overtones of the underworld as well. Pluto is *perspective*.

In all our discussions, we are referring to the individual horoscope of man, how he expresses himself through the signs and planets comprising his cosmic moment of birth. This is the main work of astrology, called Genethliacal Astrology. But there are other fields of astrological application: Mundane Astrology which studies the birth and development of nations and governments and events; Natural Astrology which deals with weather, earthquakes, storms, changes in the Earth; Horary Astrology, a very specific form of the art, which deals with the detailed answers to specific questions of the moment.

The birth of an idea can be charted as validly as the birth of a man. Throughout all branches of the astrological science-art, the symbolism reigns. The rulerships expand in application enormously; the scope of drama expands to include a nation at war, the Earth in upheaval, or an inquiry about a lost necklace.

In our three example horoscopes, we have seen different patterns appear within the Whole. These patterns show the celestial components of the cosmic drama that

find correspondence within man. Already, we can say much about these three horoscopes.

1. In example 1 (page 102), we have the Sun in Aries, a Libra ascendant, with Neptune just below the ascendant also in Libra. We remember that this ascendant and I House are extremely important as a focus of the Self. We know the meaning of Neptune — perhaps a key word would be “fantasy.” We know the powerful individual energy of Aries and the “social drive” energy of Libra. Quite quickly, we can “feel” the intrusion of fantasy at the core of the Self. The horoscope could show this individual’s reliance on fantasy, dreams, and sensitivity to project the personal ideal.

We have learned that Neptune here is related harmoniously to Venus in Aquarius in the V House since both planets are in Air signs, two signs of the Air “triangle.” Here this is especially important since Venus is the ruler of the sign Libra which is the sign on the important ascendant, where we find Neptune. Venus is the symbol of beauty and aesthetics, and we will learn that the V House contains meanings of creativity.

All this together is the challenge to the art form of synthesis in astrology. All these observations that you will learn to do very quickly reinforce our first deduction that fantasy is a very

important projection of the Self for this person, this horoscope.

There are "clashes" in the horoscope as well: Uranus and Mars are both in Cardinal signs (Cancer and Libra respectively) and so is the Sun, from Aries. This is tension indeed and, in this horoscope, if it were a female's, there might be a subdued, nervous, grin-and-bear-it attitude toward the husband while private desires are fulfilled in fantasy. —Remember: Mars rules Aries, and Aries here is on the seventh cusp. You will learn that the VII House includes reference to the mate. Uranus rules Aquarius on the V, reinforcing the meaning of Venus' position there. —Additionally, the Moon and Saturn are square (both in Mutable signs). Her ambitions might be at odds with her personality form, the way she must show herself. You will learn that the VIII and XII Houses, where we find the Moon and Saturn respectively, connote certain kinds of repression, depression, and aloofness.

The analysis can go on and on. We have hardly begun.

2. In example horoscope 2 (page 104), we see the Sun in Gemini with a Leo ascendant. The Moon is in the VII House in Aquarius. Both the Sun-Sign and the Moon-Sign are in the Air Family, so the relationship would be part of the harmonious triangle of Air, whose key word is "social." The

life-energy force and the personality form would surely flow well together, harmoniously – into a public display! – You will learn that the VII House is also the House of the Public. You know that the Moon symbolizes public reaction, that Pluto (here in the ascendant) symbolizes appeal to the masses, that Leo (on the ascendant, ruled by the Sun, the sign in which we find Pluto as well) has grand overtones of theatricality and public display.

This would be reinforced by the placement of Mercury and Venus in Taurus (ruled by Venus) in the X House, the house that has much to do with the profession. Venus is strong in its own sign, and Mercury is ruler of the Sun's sign Gemini! Neptune is in Libra, a sign ruled by Venus, and is in harmonious triangle relationship with the Sun and Moon (all Air Signs). Neptune's symbology of fantasy certainly reinforces the appearance of this horoscope as that of a public personality – a public performer!

3. In example 3 (page 106), the Sun is in Leo where its light shines most golden. Pluto is only one degree away from the same position. When we learn that the II House represents personal resources, finances, we might begin our synthesis here with the observation that the owner might be quite a wheeler-dealer, hoping to administer large financial programs to masses of people – and there

just might be something quite unusual about the whole enterprise!

There is so much more. Eventually, you will be able to ascertain *when* these inclinations will be highest during a lifetime, how they change in emphasis. You will be able to look at example 1 and *know* precisely that, born in March 1950, the individual would undergo deep personality change and alteration in late 1972, early 1973. "She" would be 23 then — perhaps the early poor marriage at 16 or 17 would break up and life would finally find freedom for her . . .

But we are getting way ahead of ourselves. These examples were chosen entirely at random from the ephemeris to illustrate calculation problems. But their validity can evoke a stream of analytical conjecture. This volume begins to lift the veil of life's myriad mysteries, to bring light through a lens, to compose the portrait.

Volumes two and three of this series will study the registration of the planets within the signs, within the houses. With the construction of the horoscope and a short study of the Sun in the signs, the composition of the portrait is set. We have taken our "light meter" and measured the relative values within the composition. In our next studies, we will "take the picture" and develop it, bringing the portrait to life — in a modern way, in the Age of Aquarius.



## 9

# The Age of Aquarius

Our entire solar system revolves as a unit around some other distant star. Within the infinitely projected circle of the zodiac, we precess into different signs. Theoretically, the Earth is "reborn" (as is the whole system) upon entrance into each new sign.

The gyration of the Earth on its axis changes very slightly the direction of this axis, i.e., the imaginary spindle through the Earth pole-to-pole. The North Pole points progressively to different Polar Stars, completing the whole circle in about 25,868 years.

At the same time, a similar phenomenon occurs on the Earth's equator, and the point of the vernal equinox (00 Aries 00) rises at a point 46" more westward on the equator each year and circles the Earth in this plane in approximately 28,174 years.

Equating these measurements to Earth longitude gave Greenwich as the position of 00 Aries 00 in 365 B.C. This discovery standardized man's time and longitudinal reference points for our historical epoch at Greenwich.

The cycle of the Earth's poles is referred to as the

*precession of the equinoxes*. We appear to be going backwards through the zodiac as the years advance. Discussions of the precession of the equinoxes attempt to combine the two variances in annual positions at the poles and the equator, relative to the stars in the heavens.

There is much said about which number of years actually measures the length of the Great Year. — For most discussions, the round figure of 25,000 years is used. If we divide by 12, we establish 2,160 years per division, per sign. For the past 2,000 years or so, then, we have been within the Age of Pisces — religious enrichment, the soul awakened — all the grand concepts of Pisces absorbed from Jupiter (and Neptune?) — and tenacious idealism and critical assimilation of knowledge (the complementary sign, Virgo and its ruler Mercury). We stand now at the dawn of a new age, the Age of Aquarius (the next sign backward in the zodiac).

Perhaps time and life began in the Age of Leo, many full cycles ago, and all of man developed, rose, fell, and began again, in sequence with the internal sign changes. At that time of Sun emphasis in an earlier Age of *Leo*, the God-light of life focused upon the world in the form of man (Aquarius, the complementary sign). Now, in the Age of *Aquarius*, man has another chance to develop the highest of his functions, to invent and glorify his individuality — to find the God within (Leo).

At mid-twentieth century, the individual is emphasized. An incredible flow of ideas and invention pours into and out of man. Is it man's responsibility within his own

personal, individual glory to really let the light shine out, the light of the Sun, the light of being?

Witness the resurgence of astrology, the means with which we study the lights within man. During the Age of Pisces, astrology was repressed as competition by newly structured religions. Astrology was misunderstood as negating a God-premise. — Now, astrology returns as the architecture of man's cosmic structure, as the scenario of man's cosmic drama.

Astrology discovers the line of destiny (Fate) set in cosmic order and measures the force of man's volition (Free Will) set within Earthly opportunity. The complexity is a miracle and a testament of some Divine Order. Man in his works glorifies a God of all.

Numbers are man's tools, his abstract system of measuring nature. In its abstraction and symbolism, no number, no measurement is exact. We "handle the pebbles" of calculation to construct the picture as best we can; to honor it, to learn from it, to enjoy it. We strive to grasp the Whole. And, in the spirit of Pythagoras, once the numerical structure is grasped, we have control over the world.



# Appendix



# **Ephemerides**

March 1950

June 1950

August 1950

# MARCH 1950

| Day   | Sid.Time | ☉        | 0 hr ☾   | ☽        | True ☿ | ♀       |
|-------|----------|----------|----------|----------|--------|---------|
| 1 W   | 22 34 53 | 10X20 28 | 25☾15 43 | 1♄57 49  | 7♃42.3 | 19≈55.7 |
| 2 Th  | 22 38 50 | 11 20 39 | 8♃46 5   | 15 40 20 | 7R38.1 | 21 26.8 |
| 3 F   | 22 42 46 | 12 20 47 | 22 40 17 | 29 45 31 | 7 34.4 | 22 59.1 |
| 4 Sa  | 22 46 43 | 13 20 54 | 6♃55 28  | 14♃ 9 28 | 7 31.7 | 24 32.4 |
| 5 Su  | 22 50 39 | 14 20 59 | 21 26 46 | 28 46 30 | 7 30.3 | 26 6.9  |
| 6 M   | 22 54 36 | 15 21 2  | 6♄ 7 51  | 13♄29 56 | 7D30.1 | 27 42.4 |
| 7 Tu  | 22 58 32 | 16 21 3  | 20 51 53 | 28 12 56 | 7 30.9 | 29 19.1 |
| 8 W   | 23 2 29  | 17 21 3  | 5♃32 21  | 12♃49 30 | 7 32.2 | 0X56.9  |
| 9 Th  | 23 6 25  | 18 21 1  | 20 3 50  | 27 14 56 | 7 33.6 | 2 35.8  |
| 10 F  | 23 10 22 | 19 20 58 | 4♃22 27  | 11♃26 8  | 7 34.5 | 4 15.8  |
| 11 Sa | 23 14 19 | 20 20 53 | 18 25 49 | 25 21 26 | 7R34.7 | 5 57.0  |
| 12 Su | 23 18 15 | 21 20 46 | 2♃12 56  | 9♃ 0 20  | 7 34.0 | 7 39.3  |
| 13 M  | 23 22 12 | 22 20 38 | 15 43 43 | 22 23 9  | 7 32.6 | 9 22.8  |
| 14 Tu | 23 26 8  | 23 20 28 | 28 58 45 | 5≈30 36  | 7 30.6 | 11 7.5  |
| 15 W  | 23 30 5  | 24 20 16 | 11≈58 51 | 18 23 37 | 7 28.6 | 12 53.4 |
| 16 Th | 23 34 1  | 25 20 2  | 24 45 1  | 1X 3 11  | 7 26.7 | 14 40.5 |
| 17 F  | 23 37 58 | 26 19 47 | 7X18 16  | 13 30 23 | 7 25.3 | 16 28.8 |
| 18 Sa | 23 41 54 | 27 19 29 | 19 39 42 | 25 46 23 | 7 24.4 | 18 18.3 |
| 19 Su | 23 45 51 | 28 19 10 | 1♃50 35  | 7♃52 32  | 7D24.2 | 20 9.0  |
| 20 M  | 23 49 48 | 29 18 48 | 13 52 26 | 19 50 33 | 7 24.4 | 22 1.0  |
| 21 Tu | 23 53 44 | 0♃18 24  | 25 47 10 | 1♃42 35  | 7 25.1 | 23 54.2 |
| 22 W  | 23 57 41 | 1 17 59  | 7♃37 10  | 13 31 17 | 7 25.8 | 25 48.6 |
| 23 Th | 0 1 37   | 2 17 31  | 19 25 22 | 25 19 51 | 7 26.6 | 27 44.3 |
| 24 F  | 0 5 34   | 3 17 0   | 1♃15 12  | 7♃11 58  | 7 27.2 | 29 41.1 |
| 25 Sa | 0 9 30   | 4 16 28  | 13 10 38 | 19 11 46 | 7 27.5 | 1♃39.0  |
| 26 Su | 0 13 27  | 5 15 53  | 25 15 57 | 1♃23 43  | 7R27.7 | 3 38.1  |
| 27 M  | 0 17 23  | 6 15 16  | 7☾35 38  | 13 52 15 | 7 27.7 | 5 38.2  |
| 28 Tu | 0 21 20  | 7 14 37  | 20 14 4  | 26 41 33 | 7 27.6 | 7 39.2  |
| 29 W  | 0 25 17  | 8 13 55  | 3♃15 7   | 9♃55 4   | 7D27.6 | 9 41.1  |
| 30 Th | 0 29 13  | 9 13 11  | 16 41 37 | 23 34 53 | 7 27.7 | 11 43.7 |
| 31 F  | 0 33 10  | 10 12 25 | 0♃34 50  | 7♃41 14  | 7 27.8 | 13 46.8 |



## LONGITUDE

| ♀        | ♂         | ♃         | ♄         | ♅        | ♆         | ♇         | ♈ |
|----------|-----------|-----------|-----------|----------|-----------|-----------|---|
| 4 ≈ 32.9 | 9 ≈ 7.7   | 20 ≈ 29.6 | 16 ≈ 30.3 | 0 ≈ 58.1 | 16 ≈ 53.7 | 16 ≈ 27.9 |   |
| 4 53.0   | 8R54.1    | 20 43.5   | 16R25.5   | 0R57.7   | 16R52.5   | 16R26.7   |   |
| 5 14.9   | 8 39.8    | 20 57.4   | 16 20.8   | 0 57.3   | 16 51.2   | 16 25.4   |   |
| 5 38.6   | 8 24.7    | 21 11.2   | 16 16.0   | 0 57.0   | 16 49.9   | 16 24.1   |   |
| 6 4.1    | 8 9.0     | 21 25.0   | 16 11.2   | 0 56.7   | 16 48.6   | 16 22.9   |   |
| 6 31.3   | 7 52.5    | 21 38.7   | 16 6.4    | 0 56.5   | 16 47.3   | 16 21.6   |   |
| 7 0.0    | 7 35.5    | 21 52.4   | 16 1.6    | 0 56.4   | 16 45.9   | 16 20.4   |   |
| 7 30.4   | 7 17.8    | 22 6.1    | 15 56.8   | 0 56.3   | 16 44.5   | 16 19.2   |   |
| 8 2.2    | 6 59.4    | 22 19.7   | 15 52.1   | 0D56.2   | 16 43.1   | 16 18.0   |   |
| 8 35.5   | 6 40.5    | 22 33.3   | 15 47.3   | 0 56.3   | 16 41.7   | 16 16.8   |   |
| 9 10.2   | 6 21.0    | 22 46.8   | 15 42.5   | 0 56.3   | 16 40.3   | 16 15.7   |   |
| 9 46.2   | 6 1.0     | 23 0.3    | 15 37.8   | 0 56.4   | 16 38.9   | 16 14.5   |   |
| 10 23.5  | 5 40.5    | 23 13.7   | 15 33.0   | 0 56.6   | 16 37.4   | 16 13.4   |   |
| 11 2.0   | 5 19.5    | 23 27.1   | 15 28.3   | 0 56.8   | 16 36.0   | 16 12.3   |   |
| 11 41.6  | 4 58.0    | 23 40.5   | 15 23.6   | 0 57.1   | 16 34.5   | 16 11.2   |   |
| 12 22.4  | 4 36.2    | 23 53.8   | 15 18.9   | 0 57.4   | 16 33.0   | 16 10.2   |   |
| 13 4.3   | 4 14.0    | 24 7.0    | 15 14.2   | 0 57.8   | 16 31.5   | 16 9.1    |   |
| 13 47.2  | 3 51.5    | 24 20.2   | 15 9.6    | 0 58.3   | 16 29.9   | 16 8.1    |   |
| 14 31.1  | 3 28.8    | 24 33.3   | 15 4.9    | 0 58.8   | 16 28.4   | 16 7.1    |   |
| 15 15.9  | 3 5.8     | 24 46.4   | 15 0.4    | 0 59.3   | 16 26.8   | 16 6.1    |   |
| 16 1.6   | 2 42.6    | 24 59.4   | 14 55.8   | 0 59.9   | 16 25.3   | 16 5.1    |   |
| 16 48.2  | 2 19.3    | 25 12.3   | 14 51.3   | 1 0.6    | 16 23.7   | 16 4.1    |   |
| 17 35.7  | 1 55.9    | 25 25.2   | 14 46.8   | 1 1.3    | 16 22.1   | 16 3.2    |   |
| 18 24.0  | 1 32.4    | 25 38.1   | 14 42.4   | 1 2.0    | 16 20.5   | 16 2.3    |   |
| 19 13.0  | 1 9.0     | 25 50.8   | 14 38.0   | 1 2.8    | 16 18.9   | 16 1.4    |   |
| 20 2.8   | 0 45.6    | 26 3.5    | 14 33.7   | 1 3.7    | 16 17.3   | 16 0.6    |   |
| 20 53.3  | 0 22.3    | 26 16.1   | 14 29.4   | 1 4.6    | 16 15.7   | 15 59.7   |   |
| 21 44.4  | 29 ≈ 59.1 | 26 28.7   | 14 25.2   | 1 5.6    | 16 14.1   | 15 58.9   |   |
| 22 36.3  | 29 36.1   | 26 41.2   | 14 21.0   | 1 6.6    | 16 12.5   | 15 58.1   |   |
| 23 28.8  | 29 13.4   | 26 53.6   | 14 16.9   | 1 7.7    | 16 10.8   | 15 57.3   |   |
| 24 21.9  | 28 50.9   | 27 5.9    | 14 12.8   | 1 8.8    | 16 9.2    | 15 56.6   |   |

# JUNE 1950

| ♀       | ♂       | ♄      | ♃       | ♆      | ♅       | ♁       |
|---------|---------|--------|---------|--------|---------|---------|
| 29♄53.4 | 26♄34.8 | 6♄25.6 | 12♄50.0 | 3♄40.0 | 14♄44.3 | 16♄ 2.0 |
| 1♃ 2.1  | 26 52.6 | 6 30.2 | 12 51.8 | 3 43.4 | 14R43.5 | 16 3.0  |
| 2 10.8  | 27 10.9 | 6 34.7 | 12 53.7 | 3 46.8 | 14 42.8 | 16 3.9  |
| 3 19.7  | 27 29.6 | 6 39.0 | 12 55.7 | 3 50.2 | 14 42.1 | 16 4.9  |
| 4 28.7  | 27 48.8 | 6 43.1 | 12 57.8 | 3 53.7 | 14 41.4 | 16 5.9  |
| 5 37.7  | 28 8.3  | 6 47.1 | 13 0.1  | 3 57.1 | 14 40.8 | 16 6.9  |
| 6 46.8  | 28 28.3 | 6 50.8 | 13 2.4  | 4 0.6  | 14 40.2 | 16 7.9  |
| 7 56.0  | 28 48.7 | 6 54.4 | 13 4.7  | 4 4.0  | 14 39.6 | 16 9.0  |
| 9 5.3   | 29 9.5  | 6 57.8 | 13 7.2  | 4 7.5  | 14 39.1 | 16 10.1 |
| 10 14.6 | 29 30.7 | 7 1.0  | 13 9.8  | 4 11.0 | 14 38.6 | 16 11.2 |
| 11 24.0 | 29 52.3 | 7 4.1  | 13 12.5 | 4 14.5 | 14 38.1 | 16 12.3 |
| 12 33.5 | 0♄14.3  | 7 6.9  | 13 15.3 | 4 18.1 | 14 37.6 | 16 13.5 |
| 13 43.1 | 0 36.6  | 7 9.6  | 13 18.2 | 4 21.6 | 14 37.2 | 16 14.6 |
| 14 52.7 | 0 59.3  | 7 12.1 | 13 21.1 | 4 25.1 | 14 36.8 | 16 15.8 |
| 16 2.4  | 1 22.4  | 7 14.4 | 13 24.2 | 4 28.7 | 14 36.5 | 16 17.1 |
| 17 12.2 | 1 45.9  | 7 16.5 | 13 27.3 | 4 32.3 | 14 36.1 | 16 18.3 |
| 18 22.1 | 2 9.7   | 7 18.4 | 13 30.6 | 4 35.8 | 14 35.8 | 16 19.6 |
| 19 32.0 | 2 33.8  | 7 20.2 | 13 33.9 | 4 39.4 | 14 35.6 | 16 20.8 |
| 20 41.9 | 2 58.2  | 7 21.7 | 13 37.3 | 4 43.0 | 14 35.3 | 16 22.1 |
| 21 51.9 | 3 23.0  | 7 23.1 | 13 40.8 | 4 46.6 | 14 35.1 | 16 23.4 |
| 23 2.0  | 3 48.2  | 7 24.2 | 13 44.4 | 4 50.2 | 14 35.0 | 16 24.8 |
| 24 12.1 | 4 13.6  | 7 25.2 | 13 48.1 | 4 53.8 | 14 34.8 | 16 26.1 |
| 25 22.3 | 4 39.3  | 7 25.9 | 13 51.9 | 4 57.4 | 14 34.7 | 16 27.5 |
| 26 32.6 | 5 5.4   | 7 26.5 | 13 55.7 | 5 1.0  | 14 34.6 | 16 28.9 |
| 27 42.9 | 5 31.7  | 7 26.9 | 13 59.7 | 5 4.6  | 14 34.6 | 16 30.3 |
| 28 53.2 | 5 58.3  | 7 27.1 | 14 3.7  | 5 8.2  | 14D34.6 | 16 31.7 |
| 0♄ 3.7  | 6 25.2  | 7R27.1 | 14 7.8  | 5 11.8 | 14 34.6 | 16 33.2 |
| 1 14.2  | 6 52.4  | 7 26.9 | 14 12.0 | 5 15.4 | 14 34.6 | 16 34.6 |
| 2 24.7  | 7 19.9  | 7 26.5 | 14 16.2 | 5 19.0 | 14 34.7 | 16 36.1 |
| 3 35.3  | 7 47.6  | 7 25.9 | 14 20.6 | 5 22.6 | 14 34.9 | 16 37.6 |

## LONGITUDE

| Day   | Sid. Time | ☉          | 0 hr ☾     | ☽          | True ☿   | ♀         |
|-------|-----------|------------|------------|------------|----------|-----------|
| 1 Th  | 4 37 36   | 10 II 25 8 | 16 ✓ 36 21 | 24 ✓ 7 38  | 5 T 10.7 | 19 O 26.1 |
| 2 F   | 4 41 33   | 11 22 36   | 1 Y 34 50  | 8 Y 56 55  | 5 R 1.2  | 19 50.5   |
| 3 Sa  | 4 45 29   | 12 20 3    | 16 12 58   | 23 22 19   | 4 52.6   | 20 19.2   |
| 4 Su  | 4 49 26   | 13 17 29   | 0 ≈ 24 32  | 7 ≈ 19 20  | 4 45.8   | 20 52.1   |
| 5 M   | 4 53 22   | 14 14 55   | 14 6 43    | 20 46 47   | 4 41.3   | 21 29.1   |
| 6 Tu  | 4 57 19   | 15 12 19   | 27 19 50   | 3 X 46 18  | 4 39.0   | 22 10.1   |
| 7 W   | 5 1 16    | 16 9 43    | 10 X 6 40  | 16 21 32   | 4 D 38.4 | 22 55.0   |
| 8 Th  | 5 5 12    | 17 7 7     | 22 31 31   | 28 37 16   | 4 38.6   | 23 43.8   |
| 9 F   | 5 9 9     | 18 4 30    | 4 T 39 29  | 10 T 38 47 | 4 R 38.6 | 24 36.3   |
| 10 Sa | 5 13 5    | 19 1 52    | 16 35 49   | 22 31 13   | 4 37.2   | 25 32.5   |
| 11 Su | 5 17 2    | 19 59 14   | 28 25 33   | 4 O 19 22  | 4 33.8   | 26 32.3   |
| 12 M  | 5 20 58   | 20 56 35   | 10 O 13 9  | 16 7 22    | 4 27.8   | 27 35.5   |
| 13 Tu | 5 24 55   | 21 53 56   | 22 2 22    | 27 58 33   | 4 19.0   | 28 42.3   |
| 14 W  | 5 28 51   | 22 51 16   | 3 II 56 10 | 9 II 55 29 | 4 7.8    | 29 52.4   |
| 15 Th | 5 32 48   | 23 48 35   | 15 56 41   | 21 59 58   | 3 55.0   | 1 II 5.8  |
| 16 F  | 5 38 45   | 24 45 54   | 28 5 25    | 4 ☽ 13 11  | 3 41.6   | 2 22.6    |
| 17 Sa | 5 40 41   | 25 43 13   | 10 ☽ 23 19 | 16 35 54   | 3 28.8   | 3 42.6    |
| 18 Su | 5 44 38   | 26 40 31   | 22 51 2    | 29 8 48    | 3 17.6   | 5 5.8     |
| 19 M  | 5 48 34   | 27 37 48   | 5 ☽ 29 17  | 11 ☽ 52 38 | 3 8.9    | 6 32.2    |
| 20 Tu | 5 52 31   | 28 35 4    | 18 18 59   | 24 48 31   | 3 3.2    | 8 1.7     |
| 21 W  | 5 56 27   | 29 32 20   | 1 T 21 27  | 7 T 58 0   | 3 0.3    | 9 34.4    |
| 22 Th | 6 0 24    | 0 ☽ 29 35  | 14 38 24   | 21 22 55   | 2 D 59.4 | 11 10.2   |
| 23 F  | 6 4 20    | 1 26 49    | 28 11 45   | 5 ☽ 5 6    | 2 R 59.5 | 12 49.0   |
| 24 Sa | 6 8 17    | 2 24 2     | 12 ☽ 3 7   | 19 5 52    | 2 59.2   | 14 30.9   |
| 25 Su | 6 12 14   | 3 21-15    | 26 13 18   | 3 T 25 16  | 2 57.3   | 16 15.7   |
| 26 M  | 6 16 10   | 4 18 28    | 10 T 41 27 | 18 1 24    | 2 53.1   | 18 3.4    |
| 27 Tu | 6 20 7    | 5 15 40    | 25 24 30   | 2 ✓ 49 56  | 2 46.1   | 19 54.0   |
| 28 W  | 6 24 3    | 6 12 51    | 10 ✓ 16 48 | 17 44 3    | 2 36.8   | 21 47.2   |
| 29 Th | 6 28 0    | 7 10 3     | 25 10 36   | 2 Y 35 18  | 2 26.0   | 23 43.1   |
| 30 F  | 6 31 56   | 8 7 14     | 9 Y 57 3   | 17 14 49   | 2 14.9   | 25 41.5   |

## LONGITUDE

| ♀       | ♂       | ♄      | ♃       | ♆      | ♅       | ♁       |
|---------|---------|--------|---------|--------|---------|---------|
| 11♄43.0 | 24♂35.2 | 5♃30.6 | 17♄15.7 | 7♄13.3 | 14♂55.3 | 17♁31.9 |
| 12 55.3 | 25 9.8  | 5♂24.4 | 17 22.1 | 7 16.5 | 14 56.4 | 17 33.7 |
| 14 7.7  | 25 44.6 | 5 18.0 | 17 28.6 | 7 19.7 | 14 57.6 | 17 35.6 |
| 15 20.1 | 26 19.6 | 5 11.5 | 17 35.1 | 7 22.8 | 14 58.8 | 17 37.4 |
| 16 32.6 | 26 54.7 | 5 4.9  | 17 41.6 | 7 25.9 | 15 0.0  | 17 39.2 |
| 17 45.1 | 27 30.0 | 4 58.1 | 17 48.3 | 7 29.0 | 15 1.3  | 17 41.1 |
| 18 57.7 | 28 5.5  | 4 51.3 | 17 54.9 | 7 32.1 | 15 2.5  | 17 42.9 |
| 20 10.3 | 28 41.1 | 4 44.3 | 18 1.6  | 7 35.1 | 15 3.8  | 17 44.8 |
| 21 23.0 | 29 16.9 | 4 37.3 | 18 8.3  | 7 38.1 | 15 5.2  | 17 46.6 |
| 22 35.7 | 29 52.8 | 4 30.1 | 18 15.1 | 7 41.1 | 15 6.5  | 17 48.5 |
| 23 48.5 | 0♄28.9  | 4 22.9 | 18 21.9 | 7 44.1 | 15 7.9  | 17 50.3 |
| 25 1.3  | 1 5.1   | 4 15.6 | 18 28.7 | 7 47.0 | 15 9.3  | 17 52.2 |
| 26 14.2 | 1 41.5  | 4 8.2  | 18 35.6 | 7 49.9 | 15 10.7 | 17 54.0 |
| 27 27.1 | 2 18.0  | 4 0.7  | 18 42.5 | 7 52.8 | 15 12.2 | 17 55.9 |
| 28 40.0 | 2 54.7  | 3 53.2 | 18 49.5 | 7 55.6 | 15 13.7 | 17 57.7 |
| 29 53.0 | 3 31.5  | 3 45.6 | 18 56.5 | 7 58.4 | 15 15.2 | 17 59.6 |
| 1♁ 6.1  | 4 8.5   | 3 37.9 | 19 3.5  | 8 1.2  | 15 16.7 | 18 1.4  |
| 2 19.1  | 4 45.6  | 3 30.2 | 19 10.5 | 8 3.9  | 15 18.3 | 18 3.2  |
| 3 32.3  | 5 22.8  | 3 22.5 | 19 17.6 | 8 6.6  | 15 19.9 | 18 5.1  |
| 4 45.5  | 6 0.2   | 3 14.7 | 19 24.7 | 8 9.3  | 15 21.5 | 18 6.9  |
| 5 58.7  | 6 37.7  | 3 6.9  | 19 31.9 | 8 11.9 | 15 23.1 | 18 8.7  |
| 7 11.9  | 7 15.4  | 2 59.0 | 19 39.0 | 8 14.5 | 15 24.7 | 18 10.6 |
| 8 25.2  | 7 53.1  | 2 51.2 | 19 46.2 | 8 17.1 | 15 26.4 | 18 12.4 |
| 9 38.6  | 8 31.0  | 2 43.3 | 19 53.4 | 8 19.6 | 15 28.1 | 18 14.2 |
| 10 52.0 | 9 9.1   | 2 35.4 | 20 0.7  | 8 22.1 | 15 29.8 | 18 16.0 |
| 12 5.4  | 9 47.2  | 2 27.5 | 20 7.9  | 8 24.5 | 15 31.5 | 18 17.8 |
| 13 18.9 | 10 25.5 | 2 19.6 | 20 15.2 | 8 26.9 | 15 33.3 | 18 19.6 |
| 14 32.4 | 11 3.9  | 2 11.7 | 20 22.5 | 8 29.3 | 15 35.1 | 18 21.4 |
| 15 45.9 | 11 42.4 | 2 3.6  | 20 29.8 | 8 31.7 | 15 36.9 | 18 23.2 |
| 16 59.5 | 12 21.1 | 1 55.9 | 20 37.1 | 8 33.9 | 15 38.7 | 18 25.0 |
| 18 13.2 | 12 59.8 | 1 48.1 | 20 44.5 | 8 36.2 | 15 40.5 | 18 26.7 |

## AUGUST 1950

| Day   | Sid. Time | ☉         | 0 hr ☾    | ☽          | True ☿    | ♀        |
|-------|-----------|-----------|-----------|------------|-----------|----------|
| 1 Tu  | 8 38 6    | 8 ♄ 39 34 | 13 ♃ 32 1 | 19 ♃ 58 6  | 29 ♃ 25.7 | 29 ♄ 0.9 |
| 2 W   | 8 42 3    | 9 36 57   | 26 18 53  | 2 ♃ 34 41  | 29 D 25.4 | 0 ♃ 36.9 |
| 3 Th  | 8 45 59   | 10 34 22  | 8 ♃ 45 58 | 14 53 11   | 29 26.3   | 2 11.1   |
| 4 F   | 8 49 56   | 11 31 48  | 20 56 54  | 26 57 43   | 29 27.4   | 3 43.6   |
| 5 Sa  | 8 53 52   | 12 29 16  | 2 ♃ 56 14 | 8 ♃ 53 5   | 29 R 28.2 | 5 14.4   |
| 6 Su  | 8 57 49   | 13 26 44  | 14 48 56  | 20 44 23   | 29 27.7   | 6 43.5   |
| 7 M   | 9 1 46    | 14 24 14  | 26 40 5   | 2 ♃ 36 39  | 29 25.7   | 8 10.9   |
| 8 Tu  | 9 5 42    | 15 21 46  | 8 ♃ 34 38 | 14 34 36   | 29 21.9   | 9 36.5   |
| 9 W   | 9 9 39    | 16 19 18  | 20 37 1   | 26 42 21   | 29 16.5   | 11 0.4   |
| 10 Th | 9 13 35   | 17 16 52  | 2 ♃ 50 59 | 9 ♃ 3 14   | 29 10.0   | 12 22.5  |
| 11 F  | 9 17 32   | 18 14 28  | 15 19 20  | 21 39 29   | 29 3.0    | 13 42.7  |
| 12 Sa | 9 21 28   | 19 12 4   | 28 3 47   | 4 ♄ 32 14  | 28 56.2   | 15 1.1   |
| 13 Su | 9 25 25   | 20 9 42   | 11 ♄ 4 48 | 17 41 23   | 28 50.4   | 16 17.6  |
| 14 M  | 9 29 21   | 21 7 21   | 24 21 48  | 1 ♃ 5 50   | 28 46.0   | 17 32.0  |
| 15 Tu | 9 33 18   | 22 5 1    | 7 ♃ 53 14 | 14 43 43   | 28 43.5   | 18 44.4  |
| 16 W  | 9 37 15   | 23 2 42   | 21 36 58  | 28 32 42   | 28 D 42.6 | 19 54.7  |
| 17 Th | 9 41 11   | 24 0 24   | 5 ♃ 30 37 | 12 ♃ 30 26 | 28 43.1   | 21 2.9   |
| 18 F  | 9 45 8    | 24 58 7   | 19 31 52  | 26 34 40   | 28 44.4   | 22 8.7   |
| 19 Sa | 9 49 4    | 25 55 52  | 3 ♃ 38 36 | 10 ♃ 43 25 | 28 45.6   | 23 12.1  |
| 20 Su | 9 53 1    | 26 53 37  | 17 48 55  | 24 54 50   | 28 R 46.2 | 24 13.0  |
| 21 M  | 9 56 57   | 27 51 24  | 2 ♃ 0 58  | 9 ♃ 7 1    | 28 45.6   | 25 11.2  |
| 22 Tu | 10 0 54   | 28 49 12  | 16 12 44  | 23 17 47   | 28 43.8   | 26 6.7   |
| 23 W  | 10 4 50   | 29 47 1   | 0 ♃ 21 50 | 7 ♃ 24 31  | 28 40.7   | 26 59.3  |
| 24 Th | 10 8 47   | 0 ♃ 44 51 | 14 25 28  | 21 24 16   | 28 36.9   | 27 48.7  |
| 25 F  | 10 12 44  | 1 42 43   | 28 20 32  | 5 ♃ 13 53  | 28 32.9   | 28 34.9  |
| 26 Sa | 10 16 40  | 2 40 35   | 12 ♃ 3 58 | 18 50 25   | 28 29.3   | 29 17.5  |
| 27 Su | 10 20 37  | 3 38 30   | 25 32 59  | 2 ♃ 11 26  | 28 26.6   | 29 56.5  |
| 28 M  | 10 24 33  | 4 36 25   | 8 ♃ 45 37 | 15 15 26   | 28 25.0   | 0 ♃ 31.5 |
| 29 Tu | 10 28 30  | 5 34 23   | 21 40 53  | 28 2 2     | 28 D 24.6 | 1 2.4    |
| 30 W  | 10 32 26  | 6 32 21   | 4 ♃ 19 1  | 10 ♃ 32 2  | 28 25.1   | 1 28.8   |
| 31 Th | 10 36 23  | 7 30 22   | 16 41 23  | 22 47 23   | 28 26.4   | 1 50.5   |



# Tables of Houses

pages relevant to  
example horoscopes  
and test horoscopes

| 21h 4m 0s          |       | 316° 0' 0" |       |       |
|--------------------|-------|------------|-------|-------|
| 13 <sup>h</sup> 32 |       |            |       |       |
| 11                 | 12    | ASC        | 2     | 3     |
| 14x48              | 17721 | 18528      | 17I 7 | 14944 |
| 14 36              | 17 48 | 20 3       | 18 25 | 15 23 |
| 14 24              | 18 16 | 21 45      | 19 46 | 16 2  |
| 14 12              | 18 47 | 23 35      | 21 10 | 16 42 |
| 13 58              | 19 20 | 25 36      | 22 39 | 17 24 |
| 13 55              | 19 28 | 26 2       | 22 57 | 17 33 |
| 13 52              | 19 35 | 26 29      | 23 16 | 17 42 |
| 13 49              | 19 43 | 26 56      | 23 35 | 17 51 |
| 13 46              | 19 51 | 27 24      | 23 55 | 18 0  |
| 13 43              | 19 59 | 27 52      | 24 15 | 18 9  |
| 13 40              | 20 7  | 28 22      | 24 35 | 18 18 |
| 13 37              | 20 16 | 28 52      | 24 55 | 18 28 |
| 13 33              | 20 25 | 29 23      | 25 16 | 18 37 |
| 13 30              | 20 34 | 29 55      | 25 38 | 18 47 |
| 13 26              | 20 43 | 0M28       | 26 0  | 18 57 |
| 13 23              | 20 53 | 1 2        | 26 22 | 19 7  |
| 13 19              | 21 3  | 1 37       | 26 45 | 19 18 |
| 13 15              | 21 14 | 2 13       | 27 9  | 19 28 |
| 13 11              | 21 25 | 2 51       | 27 33 | 19 39 |
| 13 7               | 21 36 | 3 30       | 27 58 | 19 51 |
| 13 3               | 21 48 | 4 10       | 28 23 | 20 2  |
| 12 59              | 22 1  | 4 52       | 28 49 | 20 14 |
| 12 54              | 22 14 | 5 35       | 29 16 | 20 26 |
| 12 49              | 22 28 | 6 21       | 29 44 | 20 38 |
| 12 45              | 22 42 | 7 8        | 0S12  | 20 51 |
| 12 39              | 22 57 | 7 57       | 0 42  | 21 4  |
| 12 34              | 23 13 | 8 48       | 1 13  | 21 18 |
| 12 29              | 23 30 | 9 41       | 1 44  | 21 32 |
| 12 23              | 23 48 | 10 37      | 2 17  | 21 46 |
| 12 17              | 24 6  | 11 35      | 2 51  | 22 1  |
| 12 11              | 24 27 | 12 37      | 3 26  | 22 17 |
| 12 4               | 24 48 | 13 41      | 4 3   | 22 33 |
| 11 57              | 25 11 | 14 48      | 4 42  | 22 50 |
| 11 50              | 25 35 | 15 59      | 5 22  | 23 8  |
| 11 42              | 26 2  | 17 13      | 6 3   | 23 26 |
| 11 34              | 26 30 | 18 32      | 6 47  | 23 45 |
| 11 25              | 27 1  | 19 54      | 7 33  | 24 5  |
| 11 16              | 27 34 | 21 22      | 8 21  | 24 26 |
| 11 6               | 28 11 | 22 54      | 9 12  | 24 48 |
| 10 56              | 28 51 | 24 31      | 10 5  | 25 12 |
| 10 44              | 29 36 | 26 14      | 11 1  | 25 36 |
| 10 32              | 0S25  | 28 2       | 12 1  | 26 2  |
| 10 19              | 1 20  | 29 57      | 13 4  | 26 30 |
| 10 5               | 2 23  | 1S59       | 14 11 | 27 0  |
| 9x50               | 3S34  | 4S 7       | 15S22 | 27S31 |

| 21h 8m 0s          |       | 317° 0' 0" |        |       | LAT. |
|--------------------|-------|------------|--------|-------|------|
| 14 <sup>h</sup> 32 |       |            |        |       |      |
| 11                 | 12    | ASC        | 2      | 3     |      |
| 15x53              | 18726 | 19527      | 18II 2 | 15940 | 0    |
| 15 42              | 18 54 | 21 4       | 19 21  | 16 19 | 5    |
| 15 31              | 19 24 | 22 47      | 20 42  | 16 58 | 10   |
| 15 19              | 19 56 | 24 38      | 22 6   | 17 38 | 15   |
| 15 6               | 20 32 | 26 40      | 23 35  | 18 19 | 20   |
| 15 4               | 20 39 | 27 7       | 23 53  | 18 28 | 21   |
| 15 1               | 20 47 | 27 33      | 24 12  | 18 37 | 22   |
| 14 58              | 20 55 | 28 1       | 24 31  | 18 46 | 23   |
| 14 55              | 21 4  | 28 29      | 24 51  | 18 55 | 24   |
| 14 52              | 21 12 | 28 58      | 25 11  | 19 4  | 25   |
| 14 49              | 21 21 | 29 27      | 25 31  | 19 13 | 26   |
| 14 46              | 21 30 | 29 57      | 25 51  | 19 22 | 27   |
| 14 43              | 21 40 | 0M29       | 26 12  | 19 32 | 28   |
| 14 40              | 21 49 | 1 1        | 26 34  | 19 42 | 29   |
| 14 37              | 21 59 | 1 34       | 26 56  | 19 52 | 30   |
| 14 33              | 22 10 | 2 8        | 27 18  | 20 2  | 31   |
| 14 30              | 22 20 | 2 44       | 27 41  | 20 12 | 32   |
| 14 26              | 22 32 | 3 20       | 28 4   | 20 23 | 33   |
| 14 23              | 22 43 | 3 58       | 28 28  | 20 34 | 34   |
| 14 19              | 22 55 | 4 37       | 28 53  | 20 45 | 35   |
| 14 15              | 23 8  | 5 17       | 29 18  | 20 56 | 36   |
| 14 11              | 23 21 | 5 59       | 29 44  | 21 8  | 37   |
| 14 7               | 23 35 | 6 43       | 0S11   | 21 20 | 38   |
| 14 2               | 23 49 | 7 28       | 0 39   | 21 32 | 39   |
| 13 58              | 24 4  | 8 15       | 1 7    | 21 45 | 40   |
| 13 53              | 24 20 | 9 4        | 1 37   | 21 58 | 41   |
| 13 48              | 24 37 | 9 55       | 2 7    | 22 11 | 42   |
| 13 43              | 24 55 | 10 48      | 2 39   | 22 25 | 43   |
| 13 38              | 25 14 | 11 44      | 3 11   | 22 40 | 44   |
| 13 32              | 25 34 | 12 42      | 3 45   | 22 55 | 45   |
| 13 26              | 25 55 | 13 43      | 4 20   | 23 10 | 46   |
| 13 20              | 26 17 | 14 47      | 4 57   | 23 26 | 47   |
| 13 14              | 26 41 | 15 54      | 5 35   | 23 43 | 48   |
| 13 7               | 27 7  | 17 4       | 6 14   | 24 0  | 49   |
| 13 0               | 27 35 | 18 18      | 6 56   | 24 18 | 50   |
| 12 52              | 28 5  | 19 35      | 7 39   | 24 37 | 51   |
| 12 44              | 28 37 | 20 57      | 8 25   | 24 57 | 52   |
| 12 35              | 29 12 | 22 24      | 9 12   | 25 18 | 53   |
| 12 26              | 29 51 | 23 54      | 10 2   | 25 40 | 54   |
| 12 16              | 0S30  | 25 30      | 10 55  | 26 3  | 55   |
| 12 6               | 1 20  | 27 12      | 11 51  | 26 27 | 56   |
| 11 54              | 2 11  | 28 59      | 12 49  | 26 53 | 57   |
| 11 42              | 3 9   | 0S52       | 13 52  | 27 20 | 58   |
| 11 29              | 4 15  | 2 51       | 14 58  | 27 49 | 59   |
| 11x15              | 5S29  | 4S58       | 16S 8  | 28S21 | 60   |



| LAT. | 21h 12m 0s |       | 318° 0' 0" |       |       |
|------|------------|-------|------------|-------|-------|
|      | 11         | 12    | ASC        | 2     | 3     |
| 0    | 16 57      | 19 30 | 20 26      | 18 58 | 16 36 |
| 5    | 16 47      | 20 0  | 22 4       | 20 17 | 17 14 |
| 10   | 16 37      | 20 31 | 23 49      | 21 38 | 17 53 |
| 15   | 16 26      | 21 5  | 25 41      | 23 2  | 18 33 |
| 20   | 16 14      | 21 43 | 27 44      | 24 31 | 19 14 |
| 21   | 16 12      | 21 51 | 28 11      | 24 49 | 19 23 |
| 22   | 16 9       | 21 59 | 28 38      | 25 8  | 19 32 |
| 23   | 16 7       | 22 8  | 29 5       | 25 27 | 19 40 |
| 24   | 16 4       | 22 17 | 29 33      | 25 47 | 19 49 |
| 25   | 16 2       | 22 26 | 0 2        | 26 6  | 19 58 |
| 26   | 15 59      | 22 35 | 0 32       | 26 26 | 20 8  |
| 27   | 15 56      | 22 44 | 1 3        | 26 47 | 20 17 |
| 28   | 15 53      | 22 54 | 1 34       | 27 8  | 20 27 |
| 29   | 15 50      | 23 4  | 2 7        | 27 29 | 20 36 |
| 30   | 15 47      | 23 15 | 2 40       | 27 51 | 20 46 |
| 31   | 15 44      | 23 26 | 3 14       | 28 13 | 20 56 |
| 32   | 15 41      | 23 37 | 3 50       | 28 36 | 21 7  |
| 33   | 15 37      | 23 49 | 4 26       | 29 0  | 21 17 |
| 34   | 15 34      | 24 1  | 5 4        | 29 24 | 21 28 |
| 35   | 15 31      | 24 14 | 5 43       | 29 48 | 21 39 |
| 36   | 15 27      | 24 27 | 6 23       | 0 13  | 21 50 |
| 37   | 15 23      | 24 41 | 7 5        | 0 39  | 22 2  |
| 38   | 15 19      | 24 56 | 7 49       | 1 6   | 22 14 |
| 39   | 15 15      | 25 11 | 8 34       | 1 34  | 22 26 |
| 40   | 15 11      | 25 27 | 9 21       | 2 2   | 22 38 |
| 41   | 15 7       | 25 43 | 10 10      | 2 31  | 22 51 |
| 42   | 15 2       | 26 1  | 11 1       | 3 2   | 23 5  |
| 43   | 14 57      | 26 20 | 11 54      | 3 33  | 23 19 |
| 44   | 14 52      | 26 39 | 12 50      | 4 5   | 23 33 |
| 45   | 14 47      | 27 0  | 13 48      | 4 39  | 23 48 |
| 46   | 14 42      | 27 22 | 14 48      | 5 14  | 24 3  |
| 47   | 14 36      | 27 46 | 15 52      | 5 50  | 24 19 |
| 48   | 14 30      | 28 11 | 16 58      | 6 28  | 24 35 |
| 49   | 14 24      | 28 38 | 18 8       | 7 7   | 24 53 |
| 50   | 14 17      | 29 7  | 19 21      | 7 48  | 25 11 |
| 51   | 14 10      | 29 38 | 20 38      | 8 31  | 25 29 |
| 52   | 14 3       | 0 12  | 21 59      | 9 16  | 25 49 |
| 53   | 13 55      | 0 49  | 23 24      | 10 3  | 26 10 |
| 54   | 13 46      | 1 29  | 24 54      | 10 53 | 26 31 |
| 55   | 13 37      | 2 14  | 26 29      | 11 45 | 26 54 |
| 56   | 13 27      | 3 2   | 28 9       | 12 40 | 27 18 |
| 57   | 13 17      | 3 56  | 29 54      | 13 38 | 27 43 |
| 58   | 13 6       | 4 57  | 31 6       | 14 40 | 28 10 |
| 59   | 12 53      | 6 5   | 3 43       | 15 45 | 28 39 |
| 60   | 12 40      | 7 23  | 5 47       | 16 54 | 29 10 |

| LAT. | 21h 16m 0s |       | 319° 0' 0" |       |       |
|------|------------|-------|------------|-------|-------|
|      | 11         | 12    | ASC        | 2     | 3     |
| 0    | 18 2       | 20 34 | 21 26      | 19 53 | 17 32 |
| 5    | 17 53      | 21 5  | 23 5       | 21 12 | 18 10 |
| 10   | 17 44      | 21 38 | 24 50      | 22 33 | 18 49 |
| 15   | 17 34      | 22 14 | 26 43      | 23 58 | 19 28 |
| 20   | 17 23      | 22 54 | 28 48      | 25 26 | 20 10 |
| 21   | 17 21      | 23 2  | 29 14      | 25 45 | 20 18 |
| 22   | 17 18      | 23 11 | 29 42      | 26 4  | 20 27 |
| 23   | 17 16      | 23 20 | 0 9        | 26 23 | 20 35 |
| 24   | 17 13      | 23 29 | 0 38       | 26 42 | 20 44 |
| 25   | 17 11      | 23 39 | 1 7        | 27 2  | 20 53 |
| 26   | 17 8       | 23 48 | 1 37       | 27 22 | 21 3  |
| 27   | 17 6       | 23 58 | 2 8        | 27 43 | 21 12 |
| 28   | 17 3       | 24 9  | 2 39       | 28 3  | 21 21 |
| 29   | 17 1       | 24 19 | 3 12       | 28 25 | 21 31 |
| 30   | 16 58      | 24 30 | 3 45       | 28 46 | 21 41 |
| 31   | 16 55      | 24 42 | 4 19       | 29 9  | 21 51 |
| 32   | 16 52      | 24 54 | 4 55       | 29 31 | 22 1  |
| 33   | 16 49      | 25 6  | 5 32       | 29 55 | 22 11 |
| 34   | 16 46      | 25 19 | 6 10       | 0 19  | 22 22 |
| 35   | 16 42      | 25 32 | 6 49       | 0 43  | 22 33 |
| 36   | 16 39      | 25 46 | 7 29       | 1 8   | 22 44 |
| 37   | 16 36      | 26 1  | 8 11       | 1 34  | 22 56 |
| 38   | 16 32      | 26 16 | 8 55       | 2 1   | 23 8  |
| 39   | 16 28      | 26 32 | 9 40       | 2 28  | 23 20 |
| 40   | 16 24      | 26 48 | 10 27      | 2 56  | 23 32 |
| 41   | 16 20      | 27 6  | 11 16      | 3 25  | 23 45 |
| 42   | 16 16      | 27 24 | 12 7       | 3 56  | 23 58 |
| 43   | 16 12      | 27 44 | 12 59      | 4 27  | 24 12 |
| 44   | 16 7       | 28 4  | 13 55      | 4 59  | 24 26 |
| 45   | 16 3       | 28 26 | 14 52      | 5 32  | 24 41 |
| 46   | 15 58      | 28 49 | 15 53      | 6 7   | 24 56 |
| 47   | 15 52      | 29 14 | 16 56      | 6 43  | 25 12 |
| 48   | 15 47      | 29 40 | 18 2       | 7 20  | 25 28 |
| 49   | 15 41      | 0 8   | 19 11      | 7 59  | 25 45 |
| 50   | 15 35      | 0 39  | 20 24      | 8 40  | 26 3  |
| 51   | 15 28      | 1 11  | 21 40      | 9 23  | 26 21 |
| 52   | 15 22      | 1 47  | 23 0       | 10 7  | 26 41 |
| 53   | 15 14      | 2 25  | 24 25      | 10 54 | 27 1  |
| 54   | 15 6       | 3 7   | 25 53      | 11 43 | 27 23 |
| 55   | 14 58      | 3 53  | 27 27      | 12 35 | 27 45 |
| 56   | 14 49      | 4 44  | 29 5       | 13 29 | 28 9  |
| 57   | 14 40      | 5 40  | 0 49       | 14 26 | 28 34 |
| 58   | 14 29      | 6 43  | 2 39       | 15 27 | 29 0  |
| 59   | 14 18      | 7 54  | 4 34       | 16 31 | 29 29 |
| 60   | 14 6       | 9 15  | 6 36       | 17 40 | 29 59 |

| 1h 4m 0s |        | 16° 0' 0" |       |       |
|----------|--------|-----------|-------|-------|
| 17 T 21  |        |           |       |       |
| 11       | 12     | ASC       | 2     | 3     |
| 18528    | 17II 7 | 14544     | 13032 | 14048 |
| 18 59    | 18 25  | 16 40     | 14 31 | 14 59 |
| 19 31    | 19 46  | 18 35     | 15 30 | 15 10 |
| 20 5     | 21 10  | 20 30     | 16 28 | 15 21 |
| 20 42    | 22 39  | 22 29     | 17 27 | 15 33 |
| 20 49    | 22 57  | 22 53     | 17 39 | 15 35 |
| 20 57    | 23 16  | 23 17     | 17 51 | 15 37 |
| 21 5     | 23 35  | 23 41     | 18 3  | 15 40 |
| 21 13    | 23 55  | 24 6      | 18 15 | 15 42 |
| 21 21    | 24 15  | 24 31     | 18 27 | 15 45 |
| 21 29    | 24 35  | 24 56     | 18 39 | 15 47 |
| 21 38    | 24 55  | 25 22     | 18 52 | 15 49 |
| 21 47    | 25 16  | 25 47     | 19 5  | 15 52 |
| 21 56    | 25 38  | 26 13     | 19 17 | 15 55 |
| 22 5     | 26 0   | 26 40     | 19 30 | 15 57 |
| 22 15    | 26 22  | 27 6      | 19 43 | 16 0  |
| 22 24    | 26 45  | 27 33     | 19 56 | 16 2  |
| 22 34    | 27 9   | 28 0      | 20 10 | 16 5  |
| 22 45    | 27 33  | 28 28     | 20 23 | 16 8  |
| 22 55    | 27 58  | 28 56     | 20 37 | 16 11 |
| 23 6     | 28 23  | 29 25     | 20 51 | 16 13 |
| 23 17    | 28 49  | 29 54     | 21 5  | 16 16 |
| 23 29    | 29 16  | 0023      | 21 20 | 16 19 |
| 23 41    | 29 44  | 0 53      | 21 34 | 16 22 |
| 23 54    | 0512   | 1 24      | 21 49 | 16 25 |
| 24 7     | 0 42   | 1 55      | 22 5  | 16 28 |
| 24 20    | 1 13   | 2 27      | 22 20 | 16 32 |
| 24 35    | 1 44   | 2 59      | 22 36 | 16 35 |
| 24 49    | 2 17   | 3 32      | 22 52 | 16 38 |
| 25 5     | 2 51   | 4 6       | 23 9  | 16 42 |
| 25 21    | 3 26   | 4 40      | 23 26 | 16 45 |
| 25 38    | 4 3    | 5 15      | 23 43 | 16 49 |
| 25 56    | 4 42   | 5 51      | 24 1  | 16 53 |
| 26 15    | 5 22   | 6 28      | 24 19 | 16 56 |
| 26 35    | 6 3    | 7 6       | 24 38 | 17 0  |
| 26 56    | 6 47   | 7 45      | 24 57 | 17 5  |
| 27 18    | 7 33   | 8 25      | 25 17 | 17 9  |
| 27 42    | 8 21   | 9 5       | 25 37 | 17 13 |
| 28 7     | 9 12   | 9 47      | 25 58 | 17 18 |
| 28 35    | 10 5   | 10 30     | 26 20 | 17 22 |
| 29 5     | 11 1   | 11 15     | 26 42 | 17 27 |
| 29 37    | 12 1   | 12 0      | 27 5  | 17 32 |
| 0II12    | 13 4   | 12 47     | 27 29 | 17 38 |
| 0 50     | 14 11  | 13 35     | 27 54 | 17 43 |
| 1II33    | 15522  | 14025     | 28019 | 17049 |

| 1h 8m 0s |        | 17° 0' 0" |       |       | LAT. |
|----------|--------|-----------|-------|-------|------|
| 18 T 26  |        |           |       |       |      |
| 11       | 12     | ASC       | 2     | 3     |      |
| 19527    | 18II 2 | 15540     | 14032 | 15053 | 0    |
| 19 59    | 19 21  | 17 35     | 15 30 | 16 3  | 5    |
| 20 32    | 20 42  | 19 29     | 16 28 | 16 13 | 10   |
| 21 6     | 22 6   | 21 24     | 17 25 | 16 24 | 15   |
| 21 43    | 23 35  | 23 22     | 18 23 | 16 34 | 20   |
| 21 50    | 23 53  | 23 46     | 18 35 | 16 36 | 21   |
| 21 58    | 24 12  | 24 10     | 18 46 | 16 39 | 22   |
| 22 6     | 24 31  | 24 34     | 18 58 | 16 41 | 23   |
| 22 14    | 24 51  | 24 58     | 19 10 | 16 43 | 24   |
| 22 23    | 25 11  | 25 23     | 19 22 | 16 45 | 25   |
| 22 31    | 25 31  | 25 48     | 19 34 | 16 48 | 26   |
| 22 40    | 25 51  | 26 13     | 19 47 | 16 50 | 27   |
| 22 49    | 26 12  | 26 39     | 19 59 | 16 52 | 28   |
| 22 58    | 26 34  | 27 4      | 20 11 | 16 55 | 29   |
| 23 7     | 26 56  | 27 30     | 20 24 | 16 57 | 30   |
| 23 17    | 27 18  | 27 57     | 20 37 | 16 59 | 31   |
| 23 27    | 27 41  | 28 23     | 20 50 | 17 2  | 32   |
| 23 37    | 28 4   | 28 50     | 21 3  | 17 4  | 33   |
| 23 47    | 28 28  | 29 18     | 21 16 | 17 7  | 34   |
| 23 58    | 28 53  | 29 46     | 21 30 | 17 10 | 35   |
| 24 9     | 29 18  | 0014      | 21 43 | 17 12 | 36   |
| 24 20    | 29 44  | 0 43      | 21 57 | 17 15 | 37   |
| 24 32    | 0511   | 1 12      | 22 12 | 17 18 | 38   |
| 24 45    | 0 39   | 1 41      | 22 26 | 17 20 | 39   |
| 24 57    | 1 7    | 2 12      | 22 41 | 17 23 | 40   |
| 25 10    | 1 37   | 2 42      | 22 55 | 17 26 | 41   |
| 25 24    | 2 7    | 3 14      | 23 11 | 17 29 | 42   |
| 25 38    | 2 39   | 3 46      | 23 26 | 17 32 | 43   |
| 25 53    | 3 11   | 4 18      | 23 42 | 17 35 | 44   |
| 26 9     | 3 45   | 4 52      | 23 58 | 17 38 | 45   |
| 26 25    | 4 20   | 5 26      | 24 15 | 17 42 | 46   |
| 26 43    | 4 57   | 6 0       | 24 32 | 17 45 | 47   |
| 27 1     | 5 35   | 6 36      | 24 49 | 17 49 | 48   |
| 27 20    | 6 14   | 7 12      | 25 7  | 17 52 | 49   |
| 27 40    | 6 56   | 7 49      | 25 25 | 17 56 | 50   |
| 28 1     | 7 39   | 8 28      | 25 44 | 18 0  | 51   |
| 28 24    | 8 25   | 9 7       | 26 3  | 18 4  | 52   |
| 28 48    | 9 12   | 9 47      | 26 23 | 18 8  | 53   |
| 29 14    | 10 2   | 10 28     | 26 44 | 18 12 | 54   |
| 29 42    | 10 55  | 11 11     | 27 5  | 18 16 | 55   |
| 0II11    | 11 51  | 11 54     | 27 27 | 18 21 | 56   |
| 0 44     | 12 49  | 12 39     | 27 49 | 18 26 | 57   |
| 1 19     | 13 52  | 13 25     | 28 13 | 18 31 | 58   |
| 1 58     | 14 58  | 14 13     | 28 37 | 18 36 | 59   |
| 2II42    | 165 8  | 150 2     | 290 2 | 18041 | 60   |

| 23h 44m 0s 356° 0' 0" |       |       |       |       |
|-----------------------|-------|-------|-------|-------|
| 25 X 38               |       |       |       |       |
| 11                    | 12    | ASC   | 2     | 3     |
| 28T 0                 | 28515 | 26120 | 24S 6 | 23Q41 |
| 28 20                 | 29 25 | 28 19 | 25 20 | 24 5  |
| 28 41                 | 01E39 | 05S21 | 26 33 | 24 30 |
| 29 3                  | 1 57  | 2 27  | 27 46 | 24 55 |
| 29 27                 | 3 20  | 4 38  | 29 2  | 25 21 |
| 29 32                 | 3 38  | 5 5   | 29 17 | 25 26 |
| 29 37                 | 3 56  | 5 32  | 29 33 | 25 31 |
| 29 43                 | 4 14  | 6 0   | 29 49 | 25 37 |
| 29 48                 | 4 33  | 6 28  | 0Q 5  | 25 42 |
| 29 53                 | 4 52  | 6 57  | 0 21  | 25 47 |
| 29 59                 | 5 11  | 7 26  | 0 37  | 25 53 |
| 00 5                  | 5 32  | 7 55  | 0 54  | 25 59 |
| 0 11                  | 5 52  | 8 25  | 1 10  | 26 4  |
| 0 17                  | 6 13  | 8 55  | 1 27  | 26 10 |
| 0 23                  | 6 35  | 9 26  | 1 44  | 26 16 |
| 0 29                  | 6 57  | 9 57  | 2 2   | 26 22 |
| 0 35                  | 7 20  | 10 29 | 2 19  | 26 28 |
| 0 42                  | 7 43  | 11 2  | 2 37  | 26 34 |
| 0 49                  | 8 7   | 11 35 | 2 56  | 26 40 |
| 0 56                  | 8 32  | 12 8  | 3 14  | 26 47 |
| 1 3                   | 8 58  | 12 43 | 3 33  | 26 53 |
| 1 11                  | 9 25  | 13 18 | 3 52  | 27 0  |
| 1 19                  | 9 52  | 13 54 | 4 12  | 27 7  |
| 1 27                  | 10 21 | 14 31 | 4 32  | 27 13 |
| 1 36                  | 10 51 | 15 8  | 4 53  | 27 21 |
| 1 44                  | 11 22 | 15 47 | 5 14  | 27 28 |
| 1 54                  | 11 54 | 16 26 | 5 35  | 27 35 |
| 2 3                   | 12 27 | 17 6  | 5 57  | 27 43 |
| 2 13                  | 13 2  | 17 48 | 6 20  | 27 51 |
| 2 23                  | 13 39 | 18 30 | 6 43  | 27 59 |
| 2 34                  | 14 17 | 19 14 | 7 7   | 28 7  |
| 2 46                  | 14 57 | 19 59 | 7 31  | 28 16 |
| 2 58                  | 15 40 | 20 45 | 7 56  | 28 24 |
| 3 11                  | 16 24 | 21 32 | 8 22  | 28 33 |
| 3 24                  | 17 11 | 22 21 | 8 49  | 28 43 |
| 3 38                  | 18 1  | 23 11 | 9 16  | 28 52 |
| 3 53                  | 18 53 | 24 3  | 9 45  | 29 3  |
| 4 9                   | 19 49 | 24 57 | 10 14 | 29 13 |
| 4 27                  | 20 49 | 25 52 | 10 45 | 29 24 |
| 4 45                  | 21 53 | 26 49 | 11 16 | 29 35 |
| 5 5                   | 23 1  | 27 48 | 11 49 | 29 47 |
| 5 26                  | 24 15 | 28 49 | 12 23 | 29 59 |
| 5 49                  | 25 34 | 29 52 | 12 58 | 0Q12  |
| 6 14                  | 27 0  | 0Q57  | 13 35 | 0 25  |
| 6Q42                  | 28E34 | 2Q 4  | 14Q13 | 0Q39  |

| 23h 48m 0s 357° 0' 0" |       |       |       |       |      |
|-----------------------|-------|-------|-------|-------|------|
| 26 X 44               |       |       |       |       |      |
| 11                    | 12    | ASC   | 2     | 3     | LAT. |
| 29T 3                 | 29013 | 27115 | 25S 3 | 24Q42 | 0    |
| 29 24                 | 01E24 | 29 15 | 26 16 | 25 7  | 5    |
| 29 45                 | 1 38  | 1S16  | 27 28 | 25 31 | 10   |
| 00 8                  | 2 56  | 3 21  | 28 42 | 25 55 | 15   |
| 0 33                  | 4 20  | 5 32  | 29 56 | 26 20 | 20   |
| 0 38                  | 4 38  | 5 59  | 0Q12  | 26 25 | 21   |
| 0 44                  | 4 56  | 6 26  | 0 27  | 26 30 | 22   |
| 0 49                  | 5 14  | 6 54  | 0 43  | 26 36 | 23   |
| 0 54                  | 5 33  | 7 22  | 0 59  | 26 41 | 24   |
| 1 0                   | 5 52  | 7 50  | 1 15  | 26 46 | 25   |
| 1 6                   | 6 12  | 8 19  | 1 31  | 26 52 | 26   |
| 1 12                  | 6 32  | 8 48  | 1 47  | 26 57 | 27   |
| 1 18                  | 6 53  | 9 18  | 2 4   | 27 3  | 28   |
| 1 24                  | 7 14  | 9 48  | 2 20  | 27 8  | 29   |
| 1 30                  | 7 36  | 10 19 | 2 37  | 27 14 | 30   |
| 1 37                  | 7 58  | 10 50 | 2 54  | 27 20 | 31   |
| 1 44                  | 8 21  | 11 22 | 3 12  | 27 26 | 32   |
| 1 50                  | 8 44  | 11 54 | 3 30  | 27 32 | 33   |
| 1 58                  | 9 9   | 12 27 | 3 48  | 27 38 | 34   |
| 2 5                   | 9 34  | 13 0  | 4 6   | 27 44 | 35   |
| 2 12                  | 10 0  | 13 34 | 4 25  | 27 50 | 36   |
| 2 20                  | 10 26 | 14 9  | 4 44  | 27 57 | 37   |
| 2 28                  | 10 54 | 14 45 | 5 3   | 28 3  | 38   |
| 2 37                  | 11 23 | 15 21 | 5 23  | 28 10 | 39   |
| 2 45                  | 11 52 | 15 58 | 5 43  | 28 17 | 40   |
| 2 55                  | 12 23 | 16 36 | 6 4   | 28 24 | 41   |
| 3 4                   | 12 55 | 17 15 | 6 25  | 28 31 | 42   |
| 3 14                  | 13 29 | 17 55 | 6 47  | 28 39 | 43   |
| 3 24                  | 14 4  | 18 36 | 7 9   | 28 46 | 44   |
| 3 35                  | 14 40 | 19 18 | 7 32  | 28 54 | 45   |
| 3 46                  | 15 19 | 20 2  | 7 56  | 29 2  | 46   |
| 3 58                  | 15 59 | 20 46 | 8 20  | 29 10 | 47   |
| 4 10                  | 16 41 | 21 32 | 8 45  | 29 19 | 48   |
| 4 24                  | 17 25 | 22 18 | 9 10  | 29 28 | 49   |
| 4 37                  | 18 12 | 23 7  | 9 36  | 29 37 | 50   |
| 4 52                  | 19 2  | 23 56 | 10 3  | 29 46 | 51   |
| 5 8                   | 19 54 | 24 47 | 10 31 | 29 56 | 52   |
| 5 24                  | 20 50 | 25 40 | 11 0  | 0Q 6  | 53   |
| 5 42                  | 21 49 | 26 35 | 11 30 | 0 17  | 54   |
| 6 1                   | 22 52 | 27 31 | 12 1  | 0 28  | 55   |
| 6 21                  | 24 0  | 28 29 | 12 33 | 0 39  | 56   |
| 6 43                  | 25 13 | 29 29 | 13 7  | 0 51  | 57   |
| 7 7                   | 26 32 | 0Q31  | 13 41 | 1 4   | 58   |
| 7 33                  | 27 57 | 1 36  | 14 17 | 1 16  | 59   |
| 8 1                   | 29E30 | 2Q42  | 14Q55 | 1Q30  | 60   |

| 6h 24m 0s      96° 0' 0" |       |      |       |       |
|--------------------------|-------|------|-------|-------|
| 5 S 30                   |       |      |       |       |
| 11                       | 12    | ASC  | 2     | 3     |
| 3Q41                     | 4Q7   | 6Q32 | 8Q23  | 7Q47  |
| 4 15                     | 4 43  | 6 18 | 7 31  | 7 10  |
| 4 49                     | 5 19  | 6 4  | 6 4   | 6 32  |
| 5 24                     | 5 54  | 5 51 | 5 51  | 5 54  |
| 6 0                      | 6 29  | 5 39 | 5 1   | 5 14  |
| 6 7                      | 6 36  | 5 36 | 4 51  | 5 5   |
| 6 14                     | 6 43  | 5 34 | 4 41  | 4 57  |
| 6 22                     | 6 50  | 5 31 | 4 31  | 4 49  |
| 6 30                     | 6 57  | 5 29 | 4 20  | 4 40  |
| 6 37                     | 7 5   | 5 26 | 4 10  | 4 31  |
| 6 45                     | 7 12  | 5 24 | 3 59  | 4 23  |
| 6 53                     | 7 19  | 5 21 | 3 49  | 4 14  |
| 7 1                      | 7 27  | 5 19 | 3 38  | 4 4   |
| 7 10                     | 7 34  | 5 16 | 3 27  | 3 55  |
| 7 18                     | 7 42  | 5 14 | 3 17  | 3 46  |
| 7 26                     | 7 49  | 5 11 | 3 6   | 3 36  |
| 7 35                     | 7 57  | 5 9  | 2 55  | 3 26  |
| 7 44                     | 8 5   | 5 6  | 2 43  | 3 16  |
| 7 53                     | 8 12  | 5 4  | 2 32  | 3 6   |
| 8 2                      | 8 20  | 5 1  | 2 20  | 2 55  |
| 8 12                     | 8 28  | 4 58 | 2 9   | 2 45  |
| 8 21                     | 8 36  | 4 56 | 1 57  | 2 34  |
| 8 31                     | 8 45  | 4 53 | 1 45  | 2 22  |
| 8 41                     | 8 53  | 4 50 | 1 32  | 2 11  |
| 8 51                     | 9 2   | 4 48 | 1 20  | 1 59  |
| 9 2                      | 9 10  | 4 45 | 1 7   | 1 47  |
| 9 13                     | 9 19  | 4 42 | 0 54  | 1 34  |
| 9 24                     | 9 28  | 4 39 | 0 41  | 1 21  |
| 9 36                     | 9 37  | 4 37 | 0 28  | 1 7   |
| 9 48                     | 9 46  | 4 34 | 0 14  | 0 53  |
| 10 0                     | 9 56  | 4 31 | 0 0   | 0 39  |
| 10 13                    | 10 6  | 4 28 | 29Q46 | 0 24  |
| 10 26                    | 10 15 | 4 25 | 29 31 | 0 9   |
| 10 40                    | 10 26 | 4 22 | 29 16 | 29Q52 |
| 10 54                    | 10 36 | 4 19 | 29 1  | 29 36 |
| 11 9                     | 10 47 | 4 16 | 28 45 | 29 18 |
| 11 24                    | 10 58 | 4 12 | 28 28 | 29 0  |
| 11 40                    | 11 9  | 4 9  | 28 12 | 28 41 |
| 11 57                    | 11 20 | 4 6  | 27 55 | 28 21 |
| 12 14                    | 11 32 | 4 2  | 27 37 | 28 0  |
| 12 33                    | 11 44 | 3 59 | 27 19 | 27 38 |
| 12 52                    | 11 57 | 3 55 | 27 0  | 27 14 |
| 13 12                    | 12 10 | 3 52 | 26 40 | 26 50 |
| 13 33                    | 12 23 | 3 48 | 26 20 | 26 23 |
| 13Q56                    | 12Q37 | 3Q44 | 25Q59 | 25Q56 |

| 6h 28m 0s      97° 0' 0" |       |      |       |       |
|--------------------------|-------|------|-------|-------|
| 6 S 26                   |       |      |       |       |
| 11                       | 12    | ASC  | 2     | 3     |
| 4Q39                     | 5Q10  | 7Q37 | 9Q24  | 8Q43  |
| 5 13                     | 5 45  | 7 21 | 8 32  | 8 6   |
| 5 47                     | 6 20  | 7 5  | 7 40  | 7 28  |
| 6 21                     | 6 53  | 6 50 | 6 49  | 6 49  |
| 6 56                     | 7 27  | 6 35 | 5 58  | 6 9   |
| 7 4                      | 7 34  | 6 32 | 5 48  | 6 1   |
| 7 11                     | 7 41  | 6 29 | 5 37  | 5 52  |
| 7 19                     | 7 48  | 6 26 | 5 27  | 5 44  |
| 7 26                     | 7 54  | 6 24 | 5 16  | 5 35  |
| 7 34                     | 8 1   | 6 21 | 5 6   | 5 27  |
| 7 41                     | 8 8   | 6 18 | 4 55  | 5 18  |
| 7 49                     | 8 15  | 6 15 | 4 44  | 5 9   |
| 7 57                     | 8 23  | 6 12 | 4 33  | 4 59  |
| 8 5                      | 8 30  | 6 9  | 4 22  | 4 50  |
| 8 14                     | 8 37  | 6 6  | 4 11  | 4 40  |
| 8 22                     | 8 44  | 6 3  | 4 0   | 4 31  |
| 8 31                     | 8 51  | 6 0  | 3 48  | 4 21  |
| 8 39                     | 8 59  | 5 57 | 3 37  | 4 11  |
| 8 48                     | 9 6   | 5 54 | 3 25  | 4 0   |
| 8 57                     | 9 14  | 5 51 | 3 13  | 3 50  |
| 9 7                      | 9 22  | 5 48 | 3 1   | 3 39  |
| 9 16                     | 9 30  | 5 45 | 2 49  | 3 28  |
| 9 26                     | 9 37  | 5 42 | 2 37  | 3 16  |
| 9 36                     | 9 45  | 5 39 | 2 24  | 3 5   |
| 9 46                     | 9 54  | 5 36 | 2 12  | 2 53  |
| 9 57                     | 10 2  | 5 32 | 1 59  | 2 40  |
| 10 7                     | 10 10 | 5 29 | 1 45  | 2 27  |
| 10 18                    | 10 19 | 5 26 | 1 32  | 2 14  |
| 10 30                    | 10 28 | 5 23 | 1 18  | 2 1   |
| 10 42                    | 10 37 | 5 19 | 1 4   | 1 47  |
| 10 54                    | 10 46 | 5 16 | 0 49  | 1 32  |
| 11 6                     | 10 55 | 5 12 | 0 35  | 1 17  |
| 11 19                    | 11 5  | 5 9  | 0 20  | 1 1   |
| 11 33                    | 11 14 | 5 5  | 0 4   | 0 45  |
| 11 47                    | 11 24 | 5 2  | 29Q48 | 0 28  |
| 12 1                     | 11 34 | 4 58 | 29 32 | 0 10  |
| 12 17                    | 11 45 | 4 54 | 29 15 | 29Q52 |
| 12 32                    | 11 56 | 4 51 | 28 58 | 29 32 |
| 12 49                    | 12 7  | 4 47 | 28 41 | 29 12 |
| 13 6                     | 12 18 | 4 43 | 28 22 | 28 51 |
| 13 24                    | 12 30 | 4 39 | 28 4  | 28 28 |
| 13 43                    | 12 42 | 4 34 | 27 44 | 28 5  |
| 14 3                     | 12 54 | 4 30 | 27 24 | 27 40 |
| 14 23                    | 13 7  | 4 26 | 27 4  | 27 13 |
| 14Q45                    | 13Q20 | 4Q21 | 26Q42 | 26Q45 |

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| LAT. | 6h 32m 0s 98° 0' 0" |       |      |       |       |
|------|---------------------|-------|------|-------|-------|
|      | 7 S 21              |       |      |       |       |
|      | 11                  | 12    | ASC  | 2     | 3     |
| 0    | 5038                | 6014  | 8043 | 10025 | 9040  |
| 5    | 6 11                | 6 48  | 8 24 | 9 32  | 9 2   |
| 10   | 6 44                | 7 21  | 8 6  | 8 39  | 8 24  |
| 15   | 7 18                | 7 53  | 7 48 | 7 47  | 7 45  |
| 20   | 7 53                | 8 25  | 7 32 | 6 55  | 7 5   |
| 21   | 8 1                 | 8 32  | 7 28 | 6 44  | 6 56  |
| 22   | 8 8                 | 8 38  | 7 25 | 6 34  | 6 48  |
| 23   | 8 15                | 8 45  | 7 22 | 6 23  | 6 39  |
| 24   | 8 23                | 8 52  | 7 18 | 6 12  | 6 30  |
| 25   | 8 30                | 8 58  | 7 15 | 6 1   | 6 22  |
| 26   | 8 38                | 9 5   | 7 12 | 5 50  | 6 13  |
| 27   | 8 46                | 9 12  | 7 8  | 5 39  | 6 4   |
| 28   | 8 54                | 9 18  | 7 5  | 5 28  | 5 54  |
| 29   | 9 2                 | 9 25  | 7 2  | 5 17  | 5 45  |
| 30   | 9 10                | 9 32  | 6 58 | 5 5   | 5 35  |
| 31   | 9 18                | 9 39  | 6 55 | 4 54  | 5 25  |
| 32   | 9 26                | 9 46  | 6 51 | 4 42  | 5 15  |
| 33   | 9 35                | 9 53  | 6 48 | 4 30  | 5 5   |
| 34   | 9 44                | 10 1  | 6 45 | 4 18  | 4 55  |
| 35   | 9 53                | 10 8  | 6 41 | 4 6   | 4 44  |
| 36   | 10 2                | 10 15 | 6 38 | 3 54  | 4 33  |
| 37   | 10 11               | 10 23 | 6 34 | 3 42  | 4 22  |
| 38   | 10 21               | 10 30 | 6 31 | 3 29  | 4 10  |
| 39   | 10 31               | 10 38 | 6 27 | 3 16  | 3 59  |
| 40   | 10 41               | 10 46 | 6 24 | 3 3   | 3 46  |
| 41   | 10 51               | 10 54 | 6 20 | 2 50  | 3 34  |
| 42   | 11 2                | 11 2  | 6 16 | 2 36  | 3 21  |
| 43   | 11 13               | 11 10 | 6 12 | 2 22  | 3 8   |
| 44   | 11 24               | 11 18 | 6 9  | 2 8   | 2 54  |
| 45   | 11 36               | 11 27 | 6 5  | 1 54  | 2 40  |
| 46   | 11 48               | 11 36 | 6 1  | 1 39  | 2 25  |
| 47   | 12 0                | 11 45 | 5 57 | 1 24  | 2 10  |
| 48   | 12 13               | 11 54 | 5 53 | 1 8   | 1 54  |
| 49   | 12 26               | 12 3  | 5 49 | 0 52  | 1 37  |
| 50   | 12 40               | 12 13 | 5 45 | 0 36  | 1 20  |
| 51   | 12 54               | 12 22 | 5 41 | 0 20  | 1 2   |
| 52   | 13 9                | 12 32 | 5 36 | 0 2   | 0 44  |
| 53   | 13 24               | 12 43 | 5 32 | 29045 | 0 24  |
| 54   | 13 41               | 12 53 | 5 28 | 29 27 | 0 3   |
| 55   | 13 57               | 13 4  | 5 23 | 29 8  | 29042 |
| 56   | 14 15               | 13 15 | 5 18 | 28 49 | 29 19 |
| 57   | 14 34               | 13 27 | 5 14 | 28 29 | 28 55 |
| 58   | 14 53               | 13 39 | 5 9  | 28 8  | 28 30 |
| 59   | 15 13               | 13 51 | 5 4  | 27 47 | 28 3  |
| 60   | 15035               | 1404  | 4059 | 27025 | 27034 |

| LAT. | 6h 36m 0s 99° 0' 0" |       |      |       |       |
|------|---------------------|-------|------|-------|-------|
|      | 8 S 16              |       |      |       |       |
|      | 11                  | 12    | ASC  | 2     | 3     |
| 0    | 6037                | 7018  | 8048 | 11026 | 10036 |
| 5    | 7 9                 | 7 50  | 8 26 | 10 31 | 9 58  |
| 10   | 7 42                | 8 22  | 9 6  | 9 38  | 9 20  |
| 15   | 8 16                | 8 53  | 8 47 | 8 45  | 8 41  |
| 20   | 8 50                | 9 24  | 8 28 | 7 52  | 8 0   |
| 21   | 8 58                | 9 30  | 8 24 | 7 41  | 7 52  |
| 22   | 9 5                 | 9 36  | 8 20 | 7 30  | 7 43  |
| 23   | 9 12                | 9 42  | 8 17 | 7 19  | 7 34  |
| 24   | 9 19                | 9 49  | 8 13 | 7 8   | 7 26  |
| 25   | 9 27                | 9 55  | 8 9  | 6 57  | 7 17  |
| 26   | 9 34                | 10 1  | 8 6  | 6 45  | 7 8   |
| 27   | 9 42                | 10 8  | 8 2  | 6 34  | 6 58  |
| 28   | 9 50                | 10 14 | 7 58 | 6 23  | 6 49  |
| 29   | 9 58                | 10 21 | 7 54 | 6 11  | 6 40  |
| 30   | 10 6                | 10 28 | 7 50 | 6 0   | 6 30  |
| 31   | 10 14               | 10 34 | 7 47 | 5 48  | 6 20  |
| 32   | 10 22               | 10 41 | 7 43 | 5 36  | 6 10  |
| 33   | 10 31               | 10 48 | 7 39 | 5 24  | 6 0   |
| 34   | 10 39               | 10 55 | 7 35 | 5 12  | 5 49  |
| 35   | 10 48               | 11 2  | 7 31 | 4 59  | 5 38  |
| 36   | 10 57               | 11 9  | 7 27 | 4 47  | 5 27  |
| 37   | 11 7                | 11 16 | 7 23 | 4 34  | 5 16  |
| 38   | 11 16               | 11 23 | 7 19 | 4 21  | 5 4   |
| 39   | 11 26               | 11 30 | 7 15 | 4 8   | 4 53  |
| 40   | 11 36               | 11 38 | 7 11 | 3 54  | 4 40  |
| 41   | 11 46               | 11 46 | 7 7  | 3 41  | 4 28  |
| 42   | 11 56               | 11 53 | 7 3  | 3 27  | 4 15  |
| 43   | 12 7                | 12 1  | 6 59 | 3 13  | 4 1   |
| 44   | 12 18               | 12 9  | 6 55 | 2 58  | 3 47  |
| 45   | 12 30               | 12 17 | 6 50 | 2 43  | 3 33  |
| 46   | 12 41               | 12 26 | 6 46 | 2 28  | 3 18  |
| 47   | 12 53               | 12 34 | 6 42 | 2 13  | 3 3   |
| 48   | 13 6                | 12 43 | 6 37 | 1 57  | 2 47  |
| 49   | 13 19               | 12 52 | 6 33 | 1 41  | 2 30  |
| 50   | 13 33               | 13 1  | 6 28 | 1 24  | 2 13  |
| 51   | 13 47               | 13 10 | 6 23 | 1 7   | 1 54  |
| 52   | 14 1                | 13 20 | 6 18 | 0 49  | 1 35  |
| 53   | 14 17               | 13 30 | 6 14 | 0 31  | 1 16  |
| 54   | 14 32               | 13 40 | 6 9  | 0 13  | 0 55  |
| 55   | 14 49               | 13 50 | 6 3  | 29053 | 0 33  |
| 56   | 15 6                | 14 1  | 5 58 | 29 34 | 0 10  |
| 57   | 15 24               | 14 12 | 5 53 | 29 13 | 29045 |
| 58   | 15 44               | 14 23 | 5 47 | 28 52 | 29 20 |
| 59   | 16 4                | 14 35 | 5 42 | 28 30 | 28 52 |
| 60   | 16025               | 14047 | 5036 | 2808  | 28023 |

| 13h 4m 0s 196° 0' 0" |       |       |       |       |
|----------------------|-------|-------|-------|-------|
| 17 ♈ 21              |       |       |       |       |
| 11                   | 12    | ASC   | 2     | 3     |
| 18 28                | 17 7  | 14 34 | 13 32 | 14 48 |
| 17 57                | 15 49 | 12 47 | 12 31 | 14 36 |
| 17 26                | 14 31 | 10 46 | 11 26 | 14 24 |
| 16 55                | 13 12 | 8 39  | 10 17 | 14 12 |
| 16 22                | 11 49 | 6 25  | 9 2   | 13 58 |
| 16 16                | 11 32 | 5 57  | 8 46  | 13 53 |
| 16 9                 | 11 15 | 5 28  | 8 30  | 13 52 |
| 16 2                 | 10 58 | 5 0   | 8 14  | 13 49 |
| 15 55                | 10 40 | 4 30  | 7 57  | 13 46 |
| 15 48                | 10 22 | 4 0   | 7 39  | 13 43 |
| 15 41                | 10 4  | 3 30  | 7 21  | 13 40 |
| 15 34                | 9 46  | 2 59  | 7 3   | 13 37 |
| 15 27                | 9 27  | 2 28  | 6 44  | 13 33 |
| 15 20                | 9 9   | 1 56  | 6 25  | 13 30 |
| 15 12                | 8 50  | 1 23  | 6 5   | 13 26 |
| 15 5                 | 8 30  | 0 49  | 5 45  | 13 23 |
| 14 57                | 8 10  | 0 15  | 5 23  | 13 19 |
| 14 49                | 7 50  | 29 40 | 5 2   | 13 15 |
| 14 41                | 7 29  | 29 5  | 4 39  | 13 11 |
| 14 33                | 7 9   | 28 28 | 4 16  | 13 7  |
| 14 25                | 6 47  | 27 51 | 3 51  | 13 3  |
| 14 16                | 6 25  | 27 12 | 3 26  | 12 59 |
| 14 7                 | 6 3   | 26 33 | 3 0   | 12 54 |
| 13 58                | 5 40  | 25 53 | 2 33  | 12 49 |
| 13 49                | 5 16  | 25 11 | 2 5   | 12 45 |
| 13 40                | 4 52  | 24 28 | 1 35  | 12 39 |
| 13 30                | 4 28  | 23 45 | 1 5   | 12 34 |
| 13 20                | 4 2   | 23 0  | 0 32  | 12 29 |
| 13 10                | 3 36  | 22 13 | 29 58 | 12 28 |
| 13 0                 | 3 10  | 21 25 | 29 23 | 12 17 |
| 12 49                | 2 42  | 20 36 | 28 45 | 12 11 |
| 12 38                | 2 14  | 19 45 | 28 6  | 12 4  |
| 12 26                | 1 44  | 18 53 | 27 24 | 11 57 |
| 12 14                | 1 14  | 17 58 | 26 40 | 11 50 |
| 12 2                 | 0 43  | 17 2  | 25 53 | 11 42 |
| 11 49                | 0 10  | 16 4  | 25 3  | 11 34 |
| 11 36                | 29 37 | 15 4  | 24 10 | 11 25 |
| 11 22                | 29 2  | 14 2  | 23 13 | 11 16 |
| 11 7                 | 28 25 | 12 57 | 22 11 | 11 6  |
| 10 52                | 27 48 | 11 50 | 21 5  | 10 56 |
| 10 37                | 27 9  | 10 41 | 19 52 | 10 44 |
| 10 20                | 26 28 | 9 29  | 18 34 | 10 32 |
| 10 3                 | 25 45 | 8 14  | 17 8  | 10 19 |
| 9 45                 | 25 0  | 6 56  | 15 33 | 10 5  |
| 9 26                 | 24 14 | 5 35  | 13 48 | 9 50  |

| 13h 8m 0s 197° 0' 0" |       |       |       |       | LAT. |
|----------------------|-------|-------|-------|-------|------|
| 18 ♈ 26              |       |       |       |       |      |
| 11                   | 12    | ASC   | 2     | 3     |      |
| 19 27                | 18 2  | 15 40 | 14 32 | 15 53 | 0    |
| 18 56                | 16 44 | 13 43 | 13 32 | 15 42 | 5    |
| 18 25                | 15 26 | 11 42 | 12 28 | 15 31 | 10   |
| 17 53                | 14 6  | 9 36  | 11 20 | 15 19 | 15   |
| 17 20                | 12 43 | 7 21  | 10 6  | 15 6  | 20   |
| 17 13                | 12 26 | 6 53  | 9 50  | 15 4  | 21   |
| 17 7                 | 12 9  | 6 25  | 9 34  | 15 1  | 22   |
| 17 0                 | 11 51 | 5 56  | 9 18  | 14 58 | 23   |
| 16 53                | 11 34 | 5 26  | 9 1   | 14 55 | 24   |
| 16 46                | 11 16 | 4 57  | 8 44  | 14 52 | 25   |
| 16 39                | 10 58 | 4 26  | 8 26  | 14 49 | 26   |
| 16 31                | 10 39 | 3 55  | 8 8   | 14 46 | 27   |
| 16 24                | 10 21 | 3 24  | 7 50  | 14 43 | 28   |
| 16 16                | 10 2  | 2 51  | 7 30  | 14 40 | 29   |
| 16 9                 | 9 42  | 2 18  | 7 11  | 14 37 | 30   |
| 16 1                 | 9 23  | 1 45  | 6 51  | 14 33 | 31   |
| 15 53                | 9 3   | 1 10  | 6 30  | 14 30 | 32   |
| 15 45                | 8 42  | 0 35  | 6 8   | 14 26 | 33   |
| 15 37                | 8 22  | 29 39 | 5 46  | 14 23 | 34   |
| 15 29                | 8 1   | 29 23 | 5 22  | 14 19 | 35   |
| 15 20                | 7 39  | 28 45 | 4 59  | 14 15 | 36   |
| 15 12                | 7 17  | 28 6  | 4 34  | 14 11 | 37   |
| 15 3                 | 6 54  | 27 27 | 4 8   | 14 7  | 38   |
| 14 54                | 6 31  | 26 46 | 3 41  | 14 2  | 39   |
| 14 44                | 6 7   | 26 4  | 3 13  | 13 58 | 40   |
| 14 35                | 5 43  | 25 22 | 2 44  | 13 53 | 41   |
| 14 25                | 5 18  | 24 37 | 2 13  | 13 48 | 42   |
| 14 15                | 4 53  | 23 52 | 1 41  | 13 43 | 43   |
| 14 5                 | 4 26  | 23 5  | 1 7   | 13 38 | 44   |
| 13 54                | 3 59  | 22 17 | 0 32  | 13 32 | 45   |
| 13 43                | 3 31  | 21 27 | 29 55 | 13 26 | 46   |
| 13 32                | 3 3   | 20 36 | 29 15 | 13 20 | 47   |
| 13 20                | 2 33  | 19 42 | 28 34 | 13 14 | 48   |
| 13 8                 | 2 2   | 18 48 | 27 50 | 13 7  | 49   |
| 12 55                | 1 31  | 17 51 | 27 3  | 13 0  | 50   |
| 12 42                | 0 58  | 16 52 | 26 13 | 12 52 | 51   |
| 12 28                | 0 24  | 15 51 | 25 20 | 12 44 | 52   |
| 12 14                | 29 48 | 14 48 | 24 23 | 12 35 | 53   |
| 12 0                 | 29 12 | 13 43 | 23 21 | 12 26 | 54   |
| 11 44                | 28 33 | 12 35 | 22 15 | 12 16 | 55   |
| 11 28                | 27 54 | 11 25 | 21 3  | 12 6  | 56   |
| 11 11                | 27 12 | 10 11 | 19 44 | 11 54 | 57   |
| 10 54                | 26 29 | 8 56  | 18 18 | 11 42 | 58   |
| 10 35                | 25 44 | 7 37  | 16 43 | 11 29 | 59   |
| 10 16                | 24 56 | 6 15  | 14 57 | 11 15 | 60   |

| LAT. | 13h 12m 0s 198° 0' 0" |                  |                  |                  |                  | 13h 16m 0s 199° 0' 0" |                  |                  |                  |                 |
|------|-----------------------|------------------|------------------|------------------|------------------|-----------------------|------------------|------------------|------------------|-----------------|
|      | 19 $\Delta$ 30        |                  |                  |                  |                  | 20 $\Delta$ 34        |                  |                  |                  |                 |
|      | 11                    | 12               | ASC              | 2                | 3                | 11                    | 12               | ASC              | 2                | 3               |
| 0    | 20 <del>26</del>      | 18 <del>58</del> | 16 <del>36</del> | 15 <del>32</del> | 16 <del>57</del> | 21 <del>26</del>      | 19 <del>53</del> | 17 <del>32</del> | 16 <del>33</del> | 18 <del>2</del> |
| 5    | 19 55                 | 17 40            | 14 39            | 14 33            | 16 47            | 20 54                 | 18 35            | 15 36            | 15 34            | 17 53           |
| 10   | 19 23                 | 16 21            | 12 39            | 13 30            | 16 37            | 20 21                 | 17 16            | 13 35            | 14 32            | 17 44           |
| 15   | 18 51                 | 15 1             | 10 32            | 12 23            | 16 26            | 19 49                 | 15 55            | 11 29            | 13 26            | 17 34           |
| 20   | 18 18                 | 13 37            | 8 18             | 11 10            | 16 14            | 19 15                 | 14 31            | 9 15             | 12 14            | 17 23           |
| 21   | 18 11                 | 13 20            | 7 50             | 10 55            | 16 12            | 19 8                  | 14 14            | 8 47             | 11 59            | 17 21           |
| 22   | 18 4                  | 13 3             | 7 21             | 10 39            | 16 9             | 19 1                  | 13 57            | 8 18             | 11 44            | 17 18           |
| 23   | 17 57                 | 12 45            | 6 52             | 10 23            | 16 7             | 18 54                 | 13 39            | 7 49             | 11 28            | 17 16           |
| 24   | 17 50                 | 12 27            | 6 23             | 10 6             | 16 4             | 18 47                 | 13 21            | 7 19             | 11 11            | 17 13           |
| 25   | 17 43                 | 12 9             | 5 53             | 9 49             | 16 2             | 18 40                 | 13 3             | 6 49             | 10 54            | 17 11           |
| 26   | 17 35                 | 11 51            | 5 22             | 9 32             | 15 59            | 18 32                 | 12 45            | 6 19             | 10 37            | 17 8            |
| 27   | 17 28                 | 11 33            | 4 51             | 9 14             | 15 56            | 18 25                 | 12 26            | 5 48             | 10 20            | 17 6            |
| 28   | 17 21                 | 11 14            | 4 20             | 8 55             | 15 53            | 18 17                 | 12 7             | 5 16             | 10 1             | 17 3            |
| 29   | 17 13                 | 10 55            | 3 47             | 8 36             | 15 50            | 18 10                 | 11 48            | 4 43             | 9 43             | 17 1            |
| 30   | 17 5                  | 10 35            | 3 14             | 8 17             | 15 47            | 18 2                  | 11 28            | 4 10             | 9 24             | 16 58           |
| 31   | 16 58                 | 10 16            | 2 40             | 7 57             | 15 44            | 17 54                 | 11 8             | 3 36             | 9 4              | 16 55           |
| 32   | 16 50                 | 9 55             | 2 6              | 7 36             | 15 41            | 17 46                 | 10 48            | 3 2              | 8 43             | 16 52           |
| 33   | 16 41                 | 9 35             | 1 31             | 7 15             | 15 37            | 17 38                 | 10 27            | 2 26             | 8 22             | 16 49           |
| 34   | 16 33                 | 9 14             | 0 55             | 6 53             | 15 34            | 17 29                 | 10 6             | 1 50             | 8 0              | 16 46           |
| 35   | 16 25                 | 8 53             | 0 18             | 6 30             | 15 31            | 17 21                 | 9 45             | 1 13             | 7 38             | 16 42           |
| 36   | 16 16                 | 8 31             | 29 <del>40</del> | 6 6              | 15 27            | 17 12                 | 9 23             | 0 35             | 7 14             | 16 39           |
| 37   | 16 7                  | 8 9              | 29 1             | 5 41             | 15 23            | 17 3                  | 9 0              | 29 <del>56</del> | 6 50             | 16 36           |
| 38   | 15 58                 | 7 46             | 28 21            | 5 16             | 15 19            | 16 54                 | 8 37             | 29 16            | 6 24             | 16 32           |
| 39   | 15 49                 | 7 22             | 27 40            | 4 49             | 15 15            | 16 44                 | 8 14             | 28 35            | 5 58             | 16 28           |
| 40   | 15 40                 | 6 59             | 26 58            | 4 21             | 15 11            | 16 35                 | 7 50             | 27 52            | 5 30             | 16 24           |
| 41   | 15 30                 | 6 34             | 26 15            | 3 52             | 15 7             | 16 25                 | 7 25             | 27 9             | 5 2              | 16 20           |
| 42   | 15 20                 | 6 9              | 25 30            | 3 22             | 15 2             | 16 15                 | 7 0              | 26 24            | 4 31             | 16 16           |
| 43   | 15 10                 | 5 43             | 24 45            | 2 50             | 14 57            | 16 4                  | 6 33             | 25 37            | 4 0              | 16 12           |
| 44   | 14 59                 | 5 16             | 23 57            | 2 17             | 14 52            | 15 53                 | 6 7              | 24 50            | 3 27             | 16 7            |
| 45   | 14 48                 | 4 49             | 23 9             | 1 42             | 14 47            | 15 42                 | 5 39             | 24 1             | 2 52             | 16 3            |
| 46   | 14 37                 | 4 21             | 22 18            | 1 5              | 14 42            | 15 31                 | 5 10             | 23 10            | 2 15             | 15 58           |
| 47   | 14 25                 | 3 52             | 21 26            | 0 26             | 14 36            | 15 19                 | 4 41             | 22 17            | 1 37             | 15 52           |
| 48   | 14 13                 | 3 22             | 20 33            | 29 <del>44</del> | 14 30            | 15 7                  | 4 11             | 21 23            | 0 55             | 15 47           |
| 49   | 14 1                  | 2 51             | 19 37            | 29 1             | 14 24            | 14 54                 | 3 39             | 20 27            | 0 12             | 15 41           |
| 50   | 13 48                 | 2 19             | 18 40            | 28 14            | 14 17            | 14 41                 | 3 7              | 19 29            | 29 <del>26</del> | 15 35           |
| 51   | 13 35                 | 1 45             | 17 40            | 27 24            | 14 10            | 14 28                 | 2 33             | 18 29            | 28 36            | 15 28           |
| 52   | 13 21                 | 1 11             | 16 39            | 26 31            | 14 3             | 14 14                 | 1 58             | 17 27            | 27 43            | 15 22           |
| 53   | 13 7                  | 0 35             | 15 35            | 25 34            | 13 55            | 13 59                 | 1 22             | 16 22            | 26 47            | 15 14           |
| 54   | 12 52                 | 29 <del>58</del> | 14 29            | 24 33            | 13 46            | 13 44                 | 0 44             | 15 15            | 25 45            | 15 6            |
| 55   | 12 36                 | 29 19            | 13 20            | 23 27            | 13 37            | 13 28                 | 0 5              | 14 5             | 24 39            | 14 58           |
| 56   | 12 20                 | 28 39            | 12 9             | 22 14            | 13 27            | 13 11                 | 29 <del>24</del> | 12 53            | 23 27            | 14 49           |
| 57   | 12 3                  | 27 57            | 10 54            | 20 56            | 13 17            | 12 54                 | 28 41            | 11 38            | 22 8             | 14 40           |
| 58   | 11 45                 | 27 13            | 9 37             | 19 29            | 13 6             | 12 35                 | 27 57            | 10 20            | 20 42            | 14 29           |
| 59   | 11 26                 | 26 27            | 8 17             | 17 54            | 12 53            | 12 16                 | 27 10            | 8 58             | 19 6             | 14 18           |
| 60   | 11 <del>6</del>       | 25 <del>39</del> | 6 <del>54</del>  | 16 <del>8</del>  | 12 <del>40</del> | 11 <del>56</del>      | 26 <del>21</del> | 7 <del>34</del>  | 17 <del>20</del> | 14 <del>6</del> |





# **Tables of Diurnal Planetary Motion**

Table for the Sun

Table for the Moon

Table for the Planets

pages relevant to  
example horoscopes  
and test horoscopes









Table V Diurnal Motion of the Sun

|      |    | 24 HOUR TRAVEL. |       |       |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |       |      |      |
|------|----|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|------|------|
| TIME |    | 58 32           | 58 34 | 58 36 | 58 38 | 58 40 | 58 42 | 58 44 | 58 46 | 58 48 | 58 50 | 58 52 | 58 54 | 58 56 | 58 58 | 59 0 | 59 2 | 59 4 | 59 6 | 59 8 | 59 10 | TIME |      |
| M    | 1  | 2               | 5     | 5     | 5     | 5     | 5     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2    | 2    | 2    | 2    | 2    | 2     | 2    | 1 H  |
| N    | 1  | 5               | 5     | 5     | 5     | 5     | 5     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2    | 2    | 2    | 2    | 2    | 2     | 2    | 2 1  |
| U    | 3  | 7               | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7    | 7    | 7    | 7    | 7    | 7     | 7    | 3 I  |
| U    | 4  | 10              | 10    | 10    | 10    | 10    | 10    | 10    | 10    | 10    | 10    | 10    | 10    | 10    | 10    | 10   | 10   | 10   | 10   | 10   | 10    | 10   | 4 U  |
| T    | 5  | 12              | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12    | 12   | 12   | 12   | 12   | 12   | 12    | 12   | 5 T  |
| L    | 6  | 15              | 15    | 15    | 15    | 15    | 15    | 15    | 15    | 15    | 15    | 15    | 15    | 15    | 15    | 15   | 15   | 15   | 15   | 15   | 15    | 15   | 6 T  |
| 6    | 7  | 17              | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17   | 17   | 17   | 17   | 17   | 17    | 17   | 7 S  |
| 7    | 17 | 17              | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17    | 17   | 17   | 17   | 17   | 17   | 17    | 17   | 8 S  |
| 8    | 9  | 20              | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20   | 20   | 20   | 20   | 20   | 20    | 20   | 9 S  |
| 9    | 9  | 22              | 22    | 22    | 22    | 22    | 22    | 22    | 22    | 22    | 22    | 22    | 22    | 22    | 22    | 22   | 22   | 22   | 22   | 22   | 22    | 22   | 10 S |
| 10   | 10 | 24              | 24    | 24    | 24    | 24    | 24    | 24    | 24    | 24    | 24    | 24    | 24    | 24    | 24    | 24   | 24   | 24   | 24   | 24   | 24    | 24   | 11 S |
| 11   | 11 | 27              | 27    | 27    | 27    | 27    | 27    | 27    | 27    | 27    | 27    | 27    | 27    | 27    | 27    | 27   | 27   | 27   | 27   | 27   | 27    | 27   | 12 S |
| 12   | 12 | 29              | 29    | 29    | 29    | 29    | 29    | 29    | 29    | 29    | 29    | 29    | 29    | 29    | 29    | 29   | 29   | 29   | 29   | 29   | 29    | 29   | 13 S |
| 13   | 13 | 32              | 32    | 32    | 32    | 32    | 32    | 32    | 32    | 32    | 32    | 32    | 32    | 32    | 32    | 32   | 32   | 32   | 32   | 32   | 32    | 32   | 14 S |
| 14   | 14 | 34              | 34    | 34    | 34    | 34    | 34    | 34    | 34    | 34    | 34    | 34    | 34    | 34    | 34    | 34   | 34   | 34   | 34   | 34   | 34    | 34   | 15 S |
| 15   | 15 | 37              | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 37   | 37   | 37   | 37   | 37   | 37    | 37   | 16 S |
| 16   | 16 | 39              | 39    | 39    | 39    | 39    | 39    | 39    | 39    | 39    | 39    | 39    | 39    | 39    | 39    | 39   | 39   | 39   | 39   | 39   | 39    | 39   | 17 S |
| 17   | 17 | 41              | 41    | 41    | 41    | 41    | 41    | 41    | 41    | 41    | 41    | 41    | 41    | 41    | 41    | 41   | 41   | 41   | 41   | 41   | 41    | 41   | 18 S |
| 18   | 18 | 44              | 44    | 44    | 44    | 44    | 44    | 44    | 44    | 44    | 44    | 44    | 44    | 44    | 44    | 44   | 44   | 44   | 44   | 44   | 44    | 44   | 19 S |
| 19   | 19 | 46              | 46    | 46    | 46    | 46    | 46    | 46    | 46    | 46    | 46    | 46    | 46    | 46    | 46    | 46   | 46   | 46   | 46   | 46   | 46    | 46   | 20 S |
| 20   | 20 | 49              | 49    | 49    | 49    | 49    | 49    | 49    | 49    | 49    | 49    | 49    | 49    | 49    | 49    | 49   | 49   | 49   | 49   | 49   | 49    | 49   | 21 S |
| 21   | 21 | 51              | 51    | 51    | 51    | 51    | 51    | 51    | 51    | 51    | 51    | 51    | 51    | 51    | 51    | 51   | 51   | 51   | 51   | 51   | 51    | 51   | 22 S |
| 22   | 22 | 54              | 54    | 54    | 54    | 54    | 54    | 54    | 54    | 54    | 54    | 54    | 54    | 54    | 54    | 54   | 54   | 54   | 54   | 54   | 54    | 54   | 23 S |
| 23   | 23 | 56              | 56    | 56    | 56    | 56    | 56    | 56    | 56    | 56    | 56    | 56    | 56    | 56    | 56    | 56   | 56   | 56   | 56   | 56   | 56    | 56   | 24 S |
| 24   | 24 | 59              | 59    | 59    | 59    | 59    | 59    | 59    | 59    | 59    | 59    | 59    | 59    | 59    | 59    | 59   | 59   | 59   | 59   | 59   | 59    | 59   | 25 S |
| 25   | 25 | 1               | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1    | 1    | 1    | 1    | 1    | 1     | 1    | 26 S |
| 26   | 26 | 3               | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3    | 3    | 3    | 3    | 3    | 3     | 3    | 27 S |
| 27   | 27 | 6               | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6    | 6    | 6    | 6    | 6    | 6     | 6    | 28 S |
| 28   | 28 | 11              | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11    | 11   | 11   | 11   | 11   | 11   | 11    | 11   | 29 S |
| 29   | 29 | 13              | 13    | 13    | 13    | 13    | 13    | 13    | 13    | 13    | 13    | 13    | 13    | 13    | 13    | 13   | 13   | 13   | 13   | 13   | 13    | 13   | 30 S |
| 30   | 30 | 16              | 16    | 16    | 16    | 16    | 16    | 16    | 16    | 16    | 16    | 16    | 16    | 16    | 16    | 16   | 16   | 16   | 16   | 16   | 16    | 16   | 31 S |
| 31   | 31 | 18              | 18    | 18    | 18    | 18    | 18    | 18    | 18    | 18    | 18    | 18    | 18    | 18    | 18    | 18   | 18   | 18   | 18   | 18   | 18    | 18   | 32 S |
| 32   | 32 | 20              | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20   | 20   | 20   | 20   | 20   | 20    | 20   | 33 S |
| 33   | 33 | 21              | 21    | 21    | 21    | 21    | 21    | 21    | 21    | 21    | 21    | 21    | 21    | 21    | 21    | 21   | 21   | 21   | 21   | 21   | 21    | 21   | 34 S |
| 34   | 34 | 23              | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23    | 23   | 23   | 23   | 23   | 23   | 23    | 23   | 35 S |
| 35   | 35 | 25              | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25   | 25   | 25   | 25   | 25   | 25    | 25   | 36 S |
| 36   | 36 | 28              | 28    | 28    | 28    | 28    | 28    | 28    | 28    | 28    | 28    | 28    | 28    | 28    | 28    | 28   | 28   | 28   | 28   | 28   | 28    | 28   | 37 S |
| 37   | 37 | 30              | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30   | 30   | 30   | 30   | 30   | 30    | 30   | 38 S |
| 38   | 38 | 33              | 33    | 33    | 33    | 33    | 33    | 33    | 33    | 33    | 33    | 33    | 33    | 33    | 33    | 33   | 33   | 33   | 33   | 33   | 33    | 33   | 39 S |
| 39   | 39 | 35              | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35   | 35   | 35   | 35   | 35   | 35    | 35   | 40 S |
| 40   | 40 | 38              | 38    | 38    | 38    | 38    | 38    | 38    | 38    | 38    | 38    | 38    | 38    | 38    | 38    | 38   | 38   | 38   | 38   | 38   | 38    | 38   | 41 S |

















Table VI Semidiurnal Motion of the Moon

| TIME | 12 HOUR TRAVEL |        |        |        |        |       |       |       |       |       |       |       | TIME  |       |       |
|------|----------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | 3° 55'         | 3° 56' | 3° 57' | 3° 58' | 3° 59' | 6° 0' | 6° 1' | 6° 2' | 6° 3' | 6° 4' | 6° 5' | 6° 6' |       | 6° 7' | 6° 8' |
| M 1  | 0 30           | 0 30   | 0 30   | 0 30   | 0 30   | 0 30  | 0 30  | 0 30  | 0 30  | 0 30  | 0 30  | 0 31  | 0 31  | 0 31  | 0 31  |
| I 2  | 0 59           | 0 59   | 1 0    | 1 0    | 1 0    | 1 0   | 1 0   | 1 0   | 1 0   | 1 0   | 1 0   | 1 1   | 1 1   | 1 1   | 1 1   |
| N 3  | 1 29           | 1 29   | 1 29   | 1 30   | 1 30   | 1 30  | 1 31  | 1 31  | 1 31  | 1 31  | 1 31  | 1 32  | 1 32  | 1 32  | 1 32  |
| U 4  | 1 58           | 1 59   | 1 59   | 1 59   | 2 0    | 2 0   | 2 1   | 2 1   | 2 1   | 2 1   | 2 2   | 2 2   | 2 2   | 2 2   | 2 2   |
| T 5  | 2 28           | 2 28   | 2 29   | 2 29   | 2 30   | 2 30  | 2 31  | 2 31  | 2 31  | 2 32  | 2 32  | 2 33  | 2 33  | 2 33  | 2 34  |
| E 6  | 2 58           | 2 58   | 2 59   | 2 59   | 3 0    | 3 0   | 3 1   | 3 1   | 3 1   | 3 2   | 3 2   | 3 3   | 3 3   | 3 3   | 3 4   |
| 7    | 3 27           | 3 28   | 3 29   | 3 29   | 3 30   | 3 31  | 3 31  | 3 32  | 3 32  | 3 33  | 3 33  | 3 34  | 3 35  | 3 35  | 3 36  |
| 8    | 3 57           | 3 57   | 3 58   | 3 59   | 4 0    | 4 1   | 4 1   | 4 2   | 4 2   | 4 3   | 4 3   | 4 4   | 4 4   | 4 5   | 4 5   |
| 9    | 4 26           | 4 27   | 4 28   | 4 28   | 4 30   | 4 31  | 4 31  | 4 32  | 4 32  | 4 33  | 4 34  | 4 34  | 4 35  | 4 36  | 4 37  |
| 10   | 4 56           | 4 57   | 4 58   | 4 58   | 5 0    | 5 1   | 5 2   | 5 2   | 5 3   | 5 3   | 5 4   | 5 5   | 5 5   | 5 6   | 5 6   |
| 11   | 5 25           | 5 26   | 5 27   | 5 28   | 5 30   | 5 31  | 5 32  | 5 33  | 5 33  | 5 34  | 5 35  | 5 35  | 5 36  | 5 37  | 5 38  |
| 12   | 5 55           | 5 56   | 5 57   | 5 58   | 6 0    | 6 1   | 6 2   | 6 3   | 6 3   | 6 4   | 6 5   | 6 6   | 6 7   | 6 8   | 6 9   |
| 13   | 6 24           | 6 26   | 6 27   | 6 28   | 6 30   | 6 31  | 6 32  | 6 33  | 6 33  | 6 34  | 6 35  | 6 36  | 6 37  | 6 39  | 6 40  |
| 14   | 6 54           | 6 55   | 6 57   | 6 58   | 7 0    | 7 1   | 7 2   | 7 3   | 7 3   | 7 4   | 7 5   | 7 6   | 7 7   | 7 8   | 7 9   |
| 15   | 7 24           | 7 25   | 7 26   | 7 27   | 7 30   | 7 31  | 7 32  | 7 33  | 7 34  | 7 35  | 7 36  | 7 37  | 7 38  | 7 40  | 7 41  |
| 16   | 7 53           | 7 55   | 7 56   | 7 57   | 7 59   | 8 0   | 8 1   | 8 3   | 8 4   | 8 5   | 8 5   | 8 6   | 8 7   | 8 11  | 8 12  |
| 17   | 8 23           | 8 24   | 8 26   | 8 27   | 8 29   | 8 30  | 8 31  | 8 33  | 8 34  | 8 36  | 8 37  | 8 38  | 8 40  | 8 41  | 8 42  |
| 18   | 8 52           | 8 54   | 8 55   | 8 57   | 8 58   | 9 0   | 9 1   | 9 3   | 9 4   | 9 6   | 9 7   | 9 9   | 9 12  | 9 13  | 9 14  |
| 19   | 9 22           | 9 24   | 9 25   | 9 27   | 9 28   | 9 30  | 9 32  | 9 33  | 9 35  | 9 36  | 9 38  | 9 39  | 9 41  | 9 43  | 9 44  |
| 20   | 9 52           | 9 53   | 9 55   | 9 57   | 9 58   | 10 0  | 10 2  | 10 3  | 10 5  | 10 7  | 10 8  | 10 10 | 10 12 | 10 13 | 10 15 |
| 21   | 10 21          | 10 23  | 10 25  | 10 26  | 10 28  | 10 30 | 10 32 | 10 33 | 10 35 | 10 37 | 10 39 | 10 40 | 10 42 | 10 44 | 10 46 |
| 22   | 10 51          | 10 53  | 10 55  | 10 56  | 10 58  | 11 0  | 11 1  | 11 4  | 11 5  | 11 7  | 11 9  | 11 9  | 11 11 | 11 11 | 11 12 |
| 23   | 11 20          | 11 22  | 11 24  | 11 26  | 11 28  | 11 30 | 11 32 | 11 34 | 11 36 | 11 38 | 11 40 | 11 41 | 11 43 | 11 45 | 11 47 |
| 24   | 11 50          | 11 52  | 11 54  | 11 56  | 11 58  | 12 0  | 12 2  | 12 4  | 12 5  | 12 8  | 12 10 | 12 12 | 12 14 | 12 16 | 12 18 |
| 25   | 12 20          | 12 22  | 12 24  | 12 26  | 12 28  | 12 30 | 12 32 | 12 34 | 12 36 | 12 38 | 12 40 | 12 42 | 12 45 | 12 47 | 12 49 |
| 26   | 12 49          | 12 51  | 12 53  | 12 56  | 12 58  | 13 0  | 13 2  | 13 4  | 13 6  | 13 9  | 13 11 | 13 13 | 13 15 | 13 17 | 13 19 |
| 27   | 13 19          | 13 21  | 13 23  | 13 25  | 13 28  | 13 30 | 13 32 | 13 34 | 13 37 | 13 39 | 13 41 | 13 43 | 13 46 | 13 48 | 13 50 |
| 28   | 13 48          | 13 51  | 13 53  | 13 55  | 13 58  | 14 0  | 14 2  | 14 5  | 14 7  | 14 9  | 14 12 | 14 14 | 14 16 | 14 19 | 14 21 |
| 29   | 14 18          | 14 20  | 14 23  | 14 25  | 14 28  | 14 30 | 14 32 | 14 35 | 14 37 | 14 40 | 14 42 | 14 44 | 14 47 | 14 49 | 14 52 |
| 30   | 14 47          | 14 50  | 14 52  | 14 55  | 14 57  | 15 0  | 15 2  | 15 5  | 15 7  | 15 10 | 15 12 | 15 15 | 15 17 | 15 20 | 15 22 |
| 31   | 15 17          | 15 20  | 15 22  | 15 25  | 15 27  | 15 30 | 15 33 | 15 35 | 15 38 | 15 40 | 15 43 | 15 45 | 15 48 | 15 51 | 15 53 |
| 32   | 15 47          | 15 50  | 15 52  | 15 55  | 15 57  | 16 0  | 16 3  | 16 5  | 16 8  | 16 11 | 16 13 | 16 16 | 16 19 | 16 21 | 16 24 |
| 33   | 16 16          | 16 19  | 16 22  | 16 24  | 16 27  | 16 30 | 16 33 | 16 36 | 16 38 | 16 41 | 16 44 | 16 46 | 16 49 | 16 52 | 16 55 |
| 34   | 16 46          | 16 49  | 16 52  | 16 54  | 16 57  | 17 0  | 17 3  | 17 6  | 17 8  | 17 11 | 17 14 | 17 17 | 17 20 | 17 23 | 17 26 |
| 35   | 17 15          | 17 18  | 17 21  | 17 24  | 17 27  | 17 30 | 17 33 | 17 36 | 17 39 | 17 42 | 17 45 | 17 48 | 17 50 | 17 53 | 17 56 |
| 36   | 17 45          | 17 48  | 17 51  | 17 54  | 17 57  | 18 0  | 18 3  | 18 6  | 18 9  | 18 12 | 18 15 | 18 18 | 18 21 | 18 24 | 18 27 |
| 37   | 18 15          | 18 18  | 18 21  | 18 24  | 18 27  | 18 30 | 18 33 | 18 36 | 18 39 | 18 42 | 18 45 | 18 48 | 18 49 | 18 52 | 18 55 |
| 38   | 18 44          | 18 47  | 18 50  | 18 54  | 18 57  | 19 0  | 19 3  | 19 6  | 19 9  | 19 13 | 19 16 | 19 19 | 19 22 | 19 25 | 19 28 |
| 39   | 19 14          | 19 17  | 19 20  | 19 23  | 19 26  | 19 30 | 19 33 | 19 37 | 19 40 | 19 43 | 19 46 | 19 49 | 19 53 | 19 56 | 19 59 |
| 40   | 19 43          | 19 47  | 19 50  | 19 53  | 19 57  | 20 0  | 20 3  | 20 7  | 20 10 | 20 13 | 20 17 | 20 20 | 20 23 | 20 27 | 20 30 |

|     |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 41  | 20 19   | 20 16   | 20 20   | 20 23   | 20 27   | 20 30   | 20 33   | 20 37   | 20 40   | 20 44   | 20 47   | 20 50   | 20 54   | 20 57   | 21 1    | 21 41   |
| 42  | 20 42   | 20 46   | 20 49   | 20 53   | 20 56   | 21 0    | 21 4    | 21 7    | 21 11   | 21 14   | 21 18   | 21 22   | 21 26   | 21 29   | 21 33   | 21 42   |
| 43  | 21 12   | 21 16   | 21 19   | 21 23   | 21 26   | 22 0    | 22 4    | 22 7    | 22 11   | 22 14   | 22 18   | 22 22   | 22 26   | 22 29   | 22 33   | 22 43   |
| 44  | 22 11   | 22 15   | 22 19   | 22 23   | 22 26   | 23 0    | 23 4    | 23 7    | 23 11   | 23 14   | 23 18   | 23 22   | 23 26   | 23 29   | 23 33   | 23 44   |
| 45  | 22 41   | 22 45   | 22 49   | 22 52   | 22 56   | 23 0    | 23 4    | 23 8    | 23 12   | 23 15   | 23 19   | 23 23   | 23 27   | 23 31   | 23 35   | 23 46   |
| 46  | 22 41   | 22 45   | 22 49   | 22 52   | 22 56   | 23 0    | 23 4    | 23 8    | 23 12   | 23 15   | 23 19   | 23 23   | 23 27   | 23 31   | 23 35   | 23 46   |
| 47  | 23 10   | 23 14   | 23 18   | 23 22   | 23 26   | 23 30   | 23 34   | 23 38   | 23 42   | 23 46   | 24 0    | 24 4    | 24 8    | 24 12   | 24 16   | 24 27   |
| 48  | 23 40   | 23 44   | 23 48   | 23 52   | 23 56   | 24 0    | 24 4    | 24 8    | 24 12   | 24 16   | 24 20   | 24 24   | 24 28   | 24 32   | 24 36   | 24 48   |
| 49  | 24 10   | 24 14   | 24 18   | 24 22   | 24 26   | 24 30   | 24 34   | 24 38   | 24 42   | 24 46   | 25 0    | 25 4    | 25 8    | 25 12   | 25 16   | 25 27   |
| 50  | 24 39   | 24 43   | 24 47   | 24 52   | 24 56   | 25 0    | 25 4    | 25 8    | 25 12   | 25 17   | 25 21   | 25 25   | 25 29   | 25 33   | 25 37   | 25 49   |
| 51  | 25 9    | 25 13   | 25 17   | 25 22   | 25 26   | 25 30   | 25 34   | 25 38   | 25 43   | 25 47   | 25 51   | 25 56   | 26 0    | 26 4    | 26 8    | 26 11   |
| 52  | 25 38   | 25 43   | 25 47   | 25 51   | 25 56   | 26 0    | 26 4    | 26 9    | 26 13   | 26 17   | 26 22   | 26 26   | 26 30   | 26 35   | 26 39   | 26 53   |
| 53  | 26 8    | 26 12   | 26 17   | 26 21   | 26 26   | 26 30   | 26 34   | 26 39   | 26 43   | 26 48   | 26 52   | 26 57   | 27 1    | 27 5    | 27 10   | 27 15   |
| 54  | 26 38   | 26 42   | 26 46   | 26 51   | 26 56   | 27 0    | 27 4    | 27 9    | 27 13   | 27 18   | 27 23   | 27 27   | 27 31   | 27 36   | 27 41   | 27 54   |
| 55  | 27 7    | 27 12   | 27 16   | 27 21   | 27 25   | 27 30   | 27 35   | 27 39   | 27 44   | 27 48   | 27 53   | 27 57   | 28 2    | 28 7    | 28 11   | 28 16   |
| 56  | 27 37   | 27 41   | 27 46   | 27 51   | 27 55   | 28 0    | 28 5    | 28 9    | 28 14   | 28 19   | 28 23   | 28 28   | 28 33   | 28 37   | 28 42   | 28 56   |
| 57  | 28 6    | 28 11   | 28 16   | 28 20   | 28 25   | 28 30   | 28 35   | 28 39   | 28 44   | 28 49   | 28 54   | 28 59   | 29 4    | 29 8    | 29 13   | 29 18   |
| 58  | 28 36   | 28 41   | 28 46   | 28 51   | 28 56   | 29 0    | 29 5    | 29 9    | 29 14   | 29 19   | 29 24   | 29 29   | 29 34   | 29 39   | 29 44   | 29 59   |
| 59  | 29 15   | 29 20   | 29 25   | 29 30   | 29 35   | 29 40   | 29 45   | 29 50   | 29 55   | 30 0    | 30 5    | 30 10   | 30 15   | 30 20   | 30 25   | 30 31   |
| 60  | 29 35   | 29 40   | 29 45   | 29 50   | 29 55   | 30 0    | 30 5    | 30 10   | 30 15   | 30 20   | 30 25   | 30 30   | 30 35   | 30 40   | 30 45   | 30 60   |
| H 1 | 29 35   | 29 40   | 29 45   | 29 50   | 29 55   | 30 0    | 30 5    | 30 10   | 30 15   | 30 20   | 30 25   | 30 30   | 30 35   | 30 40   | 30 45   | 30 60   |
| O 2 | 59 10   | 59 20   | 59 30   | 59 40   | 59 50   | 60 0    | 1 0     | 1 10    | 1 20    | 1 30    | 1 40    | 1 50    | 1 10    | 1 20    | 1 30    | 1 40    |
| U 3 | 1 28 45 | 1 29 0  | 1 29 15 | 1 29 30 | 1 29 45 | 1 30 0  | 1 30 15 | 1 30 30 | 1 30 45 | 1 31 0  | 1 31 15 | 1 31 30 | 1 31 45 | 1 32 0  | 1 32 15 | 1 32 30 |
| R 4 | 1 58 20 | 1 58 40 | 1 59 0  | 1 59 20 | 1 59 40 | 2 0     | 2 0 20  | 2 0 40  | 2 0 60  | 2 1 0   | 2 1 20  | 2 1 40  | 2 2 0   | 2 2 20  | 2 2 40  | 2 2 60  |
| S 5 | 2 27 55 | 2 28 20 | 2 28 45 | 2 28 70 | 2 29 0  | 2 29 15 | 2 29 30 | 2 29 45 | 2 30 0  | 2 30 15 | 2 30 30 | 2 30 45 | 2 31 0  | 2 31 15 | 2 31 30 | 2 31 45 |
| 6   | 2 57 30 | 2 58 0  | 2 58 30 | 2 59 0  | 2 59 30 | 3 0     | 3 0 30  | 3 1 0   | 3 1 30  | 3 2 0   | 3 2 30  | 3 3 0   | 3 3 30  | 3 4 0   | 3 4 30  | 3 5 0   |
| 7   | 3 27 30 | 3 27 45 | 3 27 60 | 3 28 0  | 3 28 15 | 3 28 30 | 3 28 45 | 3 29 0  | 3 29 15 | 3 29 30 | 3 29 45 | 3 30 0  | 3 30 15 | 3 30 30 | 3 30 45 | 3 31 0  |
| 8   | 3 56 40 | 3 57 0  | 3 57 30 | 3 58 0  | 3 58 30 | 4 0     | 4 0 40  | 4 1 0   | 4 1 40  | 4 2 0   | 4 2 40  | 4 3 0   | 4 3 40  | 4 4 0   | 4 4 40  | 4 5 0   |
| 9   | 4 27 0  | 4 27 15 | 4 27 30 | 4 27 45 | 4 28 0  | 4 28 15 | 4 28 30 | 4 28 45 | 4 29 0  | 4 29 15 | 4 29 30 | 4 29 45 | 4 30 0  | 4 30 15 | 4 30 30 | 4 30 45 |
| 10  | 4 53 50 | 4 54 0  | 4 54 15 | 4 54 30 | 4 54 45 | 4 55 0  | 4 55 15 | 4 55 30 | 4 55 45 | 4 56 0  | 4 56 15 | 4 56 30 | 4 56 45 | 4 57 0  | 4 57 15 | 4 57 30 |
| 11  | 5 25 25 | 5 26 0  | 5 26 15 | 5 26 30 | 5 26 45 | 5 27 0  | 5 27 15 | 5 27 30 | 5 27 45 | 5 28 0  | 5 28 15 | 5 28 30 | 5 28 45 | 5 29 0  | 5 29 15 | 5 29 30 |
| 12  | 5 55 0  | 5 56 0  | 5 57 0  | 5 58 0  | 5 59 0  | 6 0     | 6 1 0   | 6 2 0   | 6 3 0   | 6 4 0   | 6 5 0   | 6 6 0   | 6 7 0   | 6 8 0   | 6 9 0   | 6 10 0  |





|     |       |       |        |       |       |       |       |       |       |     |
|-----|-------|-------|--------|-------|-------|-------|-------|-------|-------|-----|
| 41  | 21 35 | 21 14 | 21 28  | 21 31 | 21 35 | 21 38 | 21 52 | 21 49 | 21 52 | 41  |
| 42  | 21 36 | 21 15 | 21 29  | 21 32 | 22 7  | 22 10 | 21 53 | 22 20 | 21 53 | 42  |
| 43  | 22 6  | 22 20 | 22 27  | 22 34 | 22 38 | 22 42 | 22 14 | 22 49 | 22 24 | 43  |
| 44  | 22 37 | 22 53 | 22 59  | 23 6  | 23 10 | 23 13 | 22 45 | 23 21 | 22 56 | 44  |
| 45  | 23 8  | 23 26 | 23 30  | 23 38 | 23 41 | 23 45 | 23 17 | 23 24 | 23 28 | 45  |
| 46  | 23 38 | 23 58 | 24 1   | 24 9  | 24 13 | 24 17 | 24 21 | 24 28 | 24 32 | 46  |
| 47  | 24 9  | 24 29 | 24 33  | 24 40 | 24 44 | 24 49 | 24 52 | 25 6  | 24 47 | 47  |
| 48  | 24 40 | 24 56 | 25 0   | 25 4  | 25 16 | 25 20 | 25 24 | 25 28 | 25 34 | 48  |
| 49  | 25 11 | 25 19 | 25 23  | 25 31 | 25 35 | 25 41 | 25 46 | 26 0  | 25 48 | 49  |
| 50  | 25 42 | 25 50 | 26 2   | 26 7  | 26 11 | 26 15 | 26 27 | 26 32 | 26 40 | 50  |
| 51  | 26 12 | 26 21 | 26 29  | 26 34 | 26 38 | 26 42 | 26 55 | 27 4  | 27 8  | 51  |
| 52  | 26 43 | 26 52 | 27 1   | 27 6  | 27 9  | 27 14 | 27 22 | 27 35 | 27 40 | 52  |
| 53  | 27 14 | 27 23 | 27 27  | 27 36 | 27 41 | 27 45 | 27 50 | 28 7  | 28 12 | 53  |
| 54  | 27 45 | 27 54 | 28 3   | 28 8  | 28 12 | 28 16 | 28 21 | 28 30 | 28 43 | 54  |
| 55  | 28 16 | 28 25 | 28 34  | 28 39 | 28 43 | 28 48 | 28 53 | 29 2  | 29 11 | 55  |
| 56  | 28 47 | 28 51 | 29 5   | 29 10 | 29 15 | 29 19 | 29 24 | 29 33 | 29 42 | 56  |
| 57  | 29 17 | 29 22 | 29 27  | 29 32 | 29 41 | 29 46 | 29 55 | 30 8  | 30 19 | 57  |
| 58  | 29 18 | 29 23 | 30 3   | 30 8  | 30 12 | 30 17 | 30 22 | 30 32 | 30 51 | 58  |
| 59  | 30 19 | 30 24 | 30 29  | 30 34 | 30 44 | 30 49 | 30 59 | 31 3  | 31 23 | 59  |
| 60  | 30 50 | 31 0  | 31 5   | 31 10 | 31 15 | 31 20 | 31 30 | 31 40 | 31 55 | 60  |
| 61  | 30 50 | 30 55 | 31 0   | 31 5  | 31 10 | 31 15 | 31 30 | 31 40 | 31 55 | 61  |
| 62  | 1 40  | 1 40  | 1 2 10 | 1 20  | 1 20  | 1 20  | 1 30  | 1 30  | 1 30  | 62  |
| 63  | 1 32  | 1 32  | 1 15   | 1 35  | 1 35  | 1 35  | 1 40  | 1 40  | 1 40  | 63  |
| 64  | 2 20  | 2 34  | 2 4    | 2 20  | 2 40  | 2 40  | 2 40  | 2 40  | 2 40  | 64  |
| 65  | 2 34  | 2 34  | 2 35   | 2 35  | 2 36  | 2 37  | 2 38  | 2 38  | 2 38  | 65  |
| 66  | 3 5   | 3 5   | 3 6    | 3 6   | 3 7   | 3 8   | 3 9   | 3 9   | 3 10  | 66  |
| 67  | 3 35  | 3 36  | 3 37   | 3 38  | 3 39  | 3 40  | 3 41  | 3 42  | 3 43  | 67  |
| 68  | 4 40  | 4 7   | 4 8    | 4 9   | 4 10  | 4 11  | 4 12  | 4 13  | 4 14  | 68  |
| 69  | 4 37  | 4 38  | 4 39   | 4 40  | 4 41  | 4 42  | 4 43  | 4 44  | 4 45  | 69  |
| 70  | 5 20  | 5 9   | 5 10   | 5 10  | 5 12  | 5 13  | 5 15  | 5 16  | 5 17  | 70  |
| 71  | 5 39  | 5 40  | 5 41   | 5 41  | 5 43  | 5 44  | 5 46  | 5 48  | 5 51  | 71  |
| 72  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 72  |
| 73  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 73  |
| 74  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 74  |
| 75  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 75  |
| 76  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 76  |
| 77  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 77  |
| 78  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 78  |
| 79  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 79  |
| 80  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 80  |
| 81  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 81  |
| 82  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 82  |
| 83  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 83  |
| 84  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 84  |
| 85  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 85  |
| 86  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 86  |
| 87  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 87  |
| 88  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 88  |
| 89  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 89  |
| 90  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 90  |
| 91  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 91  |
| 92  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 92  |
| 93  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 93  |
| 94  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 94  |
| 95  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 95  |
| 96  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 96  |
| 97  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 97  |
| 98  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 98  |
| 99  | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 99  |
| 100 | 6 10  | 6 11  | 6 12   | 6 13  | 6 15  | 6 16  | 6 18  | 6 20  | 6 22  | 100 |

Table VI Semidiurnal Motion of the Moon

|    |    | 12 HOUR TRAVEL. |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       | TIME |
|----|----|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------|
|    |    | 6° 25'          | 6° 26' | 6° 27' | 6° 28' | 6° 29' | 6° 30' | 6° 31' | 6° 32' | 6° 33' | 6° 34' | 6° 35' | 6° 36' | 6° 37' | 6° 38' | 6° 39' |       |      |
| M  | 1  | 0 32            | 0 32   | 0 32   | 0 32   | 0 32   | 0 33   | 0 33   | 0 33   | 0 33   | 0 33   | 0 33   | 0 33   | 0 33   | 0 33   | 0 33   | 1 M   |      |
| I  | 2  | 1 4             | 1 4    | 1 4    | 1 5    | 1 5    | 1 5    | 1 5    | 1 5    | 1 5    | 1 6    | 1 6    | 1 6    | 1 6    | 1 6    | 1 6    | 2 I   |      |
| U  | 3  | 1 36            | 1 37   | 1 37   | 1 37   | 1 37   | 1 38   | 1 38   | 1 38   | 1 38   | 1 38   | 1 39   | 1 39   | 1 39   | 1 39   | 1 39   | 3 U   |      |
| U  | 4  | 2 6             | 2 9    | 2 9    | 2 9    | 2 10   | 2 10   | 2 10   | 2 11   | 2 11   | 2 11   | 2 12   | 2 12   | 2 12   | 2 12   | 2 12   | 4 U   |      |
| T  | 5  | 2 40            | 2 41   | 2 41   | 2 42   | 2 42   | 2 42   | 2 43   | 2 43   | 2 43   | 2 44   | 2 45   | 2 45   | 2 45   | 2 45   | 2 45   | 5 T   |      |
| E  | 6  | 3 12            | 3 13   | 3 13   | 3 14   | 3 15   | 3 15   | 3 15   | 3 16   | 3 16   | 3 17   | 3 17   | 3 18   | 3 19   | 3 19   | 3 19   | 6 E   |      |
| 6  | 7  | 3 43            | 3 46   | 3 46   | 3 46   | 3 47   | 3 47   | 3 48   | 3 49   | 3 49   | 3 50   | 3 50   | 3 51   | 3 52   | 3 52   | 3 52   | 7 6   |      |
| 7  | 8  | 4 17            | 4 18   | 4 18   | 4 19   | 4 19   | 4 20   | 4 20   | 4 21   | 4 21   | 4 22   | 4 23   | 4 23   | 4 23   | 4 23   | 4 23   | 8 7   |      |
| 8  | 9  | 4 51            | 4 51   | 4 51   | 4 52   | 4 52   | 4 53   | 4 53   | 4 54   | 4 54   | 4 55   | 4 55   | 4 56   | 4 56   | 4 56   | 4 56   | 9 8   |      |
| 9  | 10 | 5 21            | 5 22   | 5 23   | 5 23   | 5 24   | 5 25   | 5 26   | 5 27   | 5 27   | 5 28   | 5 29   | 5 30   | 5 31   | 5 31   | 5 31   | 10 9  |      |
| 10 |    |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |      |
| 11 |    | 5 53            | 5 54   | 5 55   | 5 56   | 5 57   | 5 57   | 5 58   | 5 59   | 5 59   | 6 0    | 6 2    | 6 3    | 6 4    | 6 4    | 6 4    | 11 10 |      |
| 12 |    | 6 25            | 6 26   | 6 27   | 6 28   | 6 29   | 6 30   | 6 31   | 6 32   | 6 33   | 6 34   | 6 35   | 6 36   | 6 37   | 6 38   | 6 39   | 12 11 |      |
| 13 |    | 6 57            | 6 58   | 6 59   | 7 0    | 7 1    | 7 2    | 7 4    | 7 5    | 7 6    | 7 7    | 7 8    | 7 9    | 7 10   | 7 11   | 7 12   | 13 12 |      |
| 14 |    | 7 29            | 7 30   | 7 31   | 7 33   | 7 34   | 7 35   | 7 36   | 7 37   | 7 38   | 7 40   | 7 41   | 7 42   | 7 43   | 7 44   | 7 46   | 14 13 |      |
| 15 |    | 8 1             | 8 2    | 8 4    | 8 5    | 8 6    | 8 7    | 8 9    | 8 10   | 8 11   | 8 12   | 8 14   | 8 15   | 8 16   | 8 17   | 8 19   | 15 14 |      |
| 16 |    | 8 33            | 8 35   | 8 36   | 8 37   | 8 39   | 8 40   | 8 41   | 8 43   | 8 44   | 8 45   | 8 47   | 8 48   | 8 49   | 8 51   | 8 52   | 16 15 |      |
| 17 |    | 9 5             | 9 7    | 9 8    | 9 10   | 9 11   | 9 12   | 9 14   | 9 15   | 9 16   | 9 18   | 9 20   | 9 21   | 9 22   | 9 24   | 9 25   | 17 16 |      |
| 18 |    | 10 37           | 10 37  | 10 38  | 10 40  | 10 41  | 10 42  | 10 43  | 10 44  | 10 45  | 10 47  | 10 49  | 10 50  | 10 51  | 10 52  | 10 53  | 18 17 |      |
| 19 |    | 10 37           | 10 37  | 10 38  | 10 40  | 10 41  | 10 42  | 10 43  | 10 44  | 10 45  | 10 47  | 10 49  | 10 50  | 10 51  | 10 52  | 10 53  | 19 18 |      |
| 20 |    | 10 42           | 10 43  | 10 45  | 10 47  | 10 48  | 10 50  | 10 52  | 10 53  | 10 55  | 10 57  | 10 58  | 11 0   | 11 2   | 11 3   | 11 5   | 20 19 |      |
| 21 |    | 11 14           | 11 15  | 11 17  | 11 19  | 11 21  | 11 22  | 11 24  | 11 26  | 11 28  | 11 29  | 11 31  | 11 33  | 11 35  | 11 36  | 11 38  | 21 20 |      |
| 22 |    | 11 46           | 11 48  | 11 49  | 11 51  | 11 53  | 11 55  | 11 57  | 11 59  | 12 0   | 12 2   | 12 4   | 12 6   | 12 8   | 12 10  | 12 11  | 22 21 |      |
| 23 |    | 12 18           | 12 20  | 12 22  | 12 24  | 12 26  | 12 27  | 12 29  | 12 31  | 12 33  | 12 35  | 12 37  | 12 39  | 12 41  | 12 43  | 12 45  | 23 22 |      |
| 24 |    | 12 50           | 12 52  | 12 54  | 12 56  | 12 58  | 13 0   | 13 2   | 13 4   | 13 6   | 13 8   | 13 10  | 13 12  | 13 14  | 13 16  | 13 18  | 24 23 |      |
| 25 |    | 13 22           | 13 24  | 13 26  | 13 28  | 13 30  | 13 32  | 13 35  | 13 37  | 13 39  | 13 41  | 13 43  | 13 45  | 13 47  | 13 49  | 13 51  | 25 24 |      |
| 26 |    | 13 54           | 13 56  | 13 58  | 14 1   | 14 3   | 14 5   | 14 7   | 14 9   | 14 11  | 14 14  | 14 16  | 14 18  | 14 20  | 14 22  | 14 24  | 26 25 |      |
| 27 |    | 14 26           | 14 28  | 14 31  | 14 33  | 14 35  | 14 37  | 14 40  | 14 42  | 14 44  | 14 46  | 14 50  | 14 51  | 14 53  | 14 55  | 14 58  | 27 26 |      |
| 28 |    | 15 58           | 15 59  | 16 0   | 16 1   | 16 2   | 16 3   | 16 4   | 16 5   | 16 6   | 16 7   | 16 8   | 16 9   | 16 10  | 16 11  | 16 12  | 28 27 |      |
| 29 |    | 16 9            | 16 9   | 16 8   | 16 10  | 16 12  | 16 15  | 16 18  | 16 20  | 16 23  | 16 25  | 16 27  | 16 30  | 16 33  | 16 35  | 16 38  | 29 28 |      |
| 30 |    |                 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |       |      |
| 31 |    | 16 35           | 16 37  | 16 40  | 16 42  | 16 45  | 16 48  | 16 50  | 16 53  | 16 55  | 16 58  | 17 0   | 17 3   | 17 6   | 17 8   | 17 11  | 31 29 |      |
| 32 |    | 17 7            | 17 9   | 17 12  | 17 15  | 17 17  | 17 19  | 17 23  | 17 25  | 17 28  | 17 31  | 17 33  | 17 36  | 17 39  | 17 41  | 17 44  | 32 30 |      |
| 33 |    | 17 39           | 17 41  | 17 44  | 17 47  | 17 50  | 17 53  | 17 55  | 17 58  | 18 1   | 18 4   | 18 6   | 18 9   | 18 12  | 18 15  | 18 17  | 33 31 |      |
| 34 |    | 18 11           | 18 14  | 18 16  | 18 19  | 18 22  | 18 25  | 18 28  | 18 31  | 18 34  | 18 36  | 18 39  | 18 42  | 18 45  | 18 48  | 18 50  | 34 32 |      |
| 35 |    | 18 43           | 18 46  | 18 49  | 18 52  | 18 55  | 18 57  | 19 0   | 19 3   | 19 6   | 19 9   | 19 12  | 19 15  | 19 18  | 19 21  | 19 24  | 35 33 |      |
| 36 |    | 19 13           | 19 16  | 19 21  | 19 24  | 19 27  | 19 30  | 19 33  | 19 36  | 19 39  | 19 42  | 19 45  | 19 48  | 19 51  | 19 54  | 19 57  | 36 34 |      |
| 37 |    | 19 47           | 19 50  | 19 53  | 19 56  | 19 59  | 20 0   | 20 3   | 20 6   | 20 9   | 20 12  | 20 15  | 20 18  | 20 21  | 20 24  | 20 27  | 37 35 |      |
| 38 |    | 20 19           | 20 22  | 20 25  | 20 29  | 20 32  | 20 35  | 20 38  | 20 41  | 20 44  | 20 48  | 20 51  | 20 54  | 20 57  | 21 0   | 21 4   | 38 36 |      |
| 39 |    | 20 11           | 20 29  | 20 36  | 21 0   | 21 3   | 21 6   | 21 11  | 21 14  | 21 17  | 21 21  | 21 24  | 21 27  | 21 30  | 21 34  | 21 37  | 39 37 |      |
| 40 |    | 21 23           | 21 27  | 21 30  | 21 33  | 21 37  | 21 40  | 21 43  | 21 47  | 21 50  | 21 53  | 21 57  | 22 0   | 22 3   | 22 7   | 22 10  | 40 38 |      |

|    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| 41 | 21 55 | 21 59 | 22 2  | 22 6  | 22 9  | 22 12 | 22 16 | 22 19 | 22 23 | 22 26 | 22 30 | 22 33 | 22 36 | 22 40 | 22 43 | 41    |    |
| 42 | 22 27 | 22 31 | 22 37 | 22 40 | 22 43 | 22 46 | 22 49 | 22 52 | 22 55 | 22 58 | 23 0  | 23 3  | 23 6  | 23 9  | 23 13 | 23 16 | 42 |
| 43 | 23 0  | 23 5  | 23 10 | 23 14 | 23 18 | 23 21 | 23 24 | 23 27 | 23 30 | 23 33 | 23 36 | 23 39 | 23 42 | 23 46 | 23 50 | 23 53 | 43 |
| 44 | 23 32 | 23 35 | 23 39 | 23 43 | 23 46 | 23 50 | 23 54 | 23 57 | 24 0  | 24 3  | 24 6  | 24 9  | 24 12 | 24 16 | 24 19 | 24 23 | 44 |
| 45 | 24 4  | 24 8  | 24 11 | 24 15 | 24 19 | 24 23 | 24 26 | 24 30 | 24 34 | 24 38 | 24 41 | 24 45 | 24 49 | 24 53 | 24 56 | 24 60 | 45 |
| 46 | 24 36 | 24 40 | 24 44 | 24 47 | 24 51 | 24 55 | 24 59 | 25 3  | 25 7  | 25 10 | 25 14 | 25 18 | 25 22 | 25 26 | 25 30 | 25 34 | 46 |
| 47 | 25 8  | 25 12 | 25 16 | 25 20 | 25 24 | 25 27 | 25 31 | 25 35 | 25 39 | 25 43 | 25 47 | 25 51 | 25 55 | 25 59 | 26 3  | 26 7  | 47 |
| 48 | 25 40 | 25 44 | 25 48 | 25 52 | 25 56 | 26 0  | 26 4  | 26 8  | 26 12 | 26 16 | 26 20 | 26 24 | 26 28 | 26 32 | 26 36 | 26 40 | 48 |
| 49 | 26 12 | 26 16 | 26 20 | 26 24 | 26 28 | 26 33 | 26 37 | 26 41 | 26 45 | 26 49 | 26 53 | 26 57 | 27 1  | 27 5  | 27 9  | 27 13 | 49 |
| 50 | 26 44 | 26 48 | 26 52 | 26 57 | 27 1  | 27 5  | 27 9  | 27 13 | 27 17 | 27 22 | 27 26 | 27 30 | 27 34 | 27 38 | 27 42 | 27 46 | 50 |
| 51 | 27 16 | 27 20 | 27 25 | 27 29 | 27 33 | 27 38 | 27 42 | 27 46 | 27 50 | 27 54 | 27 59 | 28 3  | 28 7  | 28 11 | 28 16 | 28 21 | 51 |
| 52 | 27 48 | 27 53 | 27 57 | 28 1  | 28 6  | 28 10 | 28 14 | 28 19 | 28 23 | 28 27 | 28 32 | 28 36 | 28 40 | 28 45 | 28 50 | 28 55 | 52 |
| 53 | 28 20 | 28 25 | 28 29 | 28 34 | 28 38 | 28 43 | 28 47 | 28 51 | 28 56 | 29 0  | 29 5  | 29 9  | 29 13 | 29 18 | 29 22 | 29 27 | 53 |
| 54 | 28 53 | 28 57 | 29 1  | 29 6  | 29 10 | 29 15 | 29 19 | 29 24 | 29 28 | 29 33 | 29 38 | 29 42 | 29 46 | 29 51 | 29 55 | 29 60 | 54 |
| 55 | 29 29 | 29 34 | 29 38 | 29 43 | 29 48 | 29 52 | 29 57 | 30 1  | 30 6  | 30 11 | 30 16 | 30 21 | 30 26 | 30 31 | 30 36 | 30 41 | 55 |
| 56 | 29 57 | 30 1  | 30 6  | 30 11 | 30 16 | 30 20 | 30 25 | 30 29 | 30 34 | 30 39 | 30 43 | 30 48 | 30 53 | 30 57 | 31 2  | 31 7  | 56 |
| 57 | 30 29 | 30 34 | 30 38 | 30 43 | 30 48 | 30 53 | 30 57 | 31 2  | 31 7  | 31 11 | 31 16 | 31 21 | 31 26 | 31 30 | 31 35 | 31 40 | 57 |
| 58 | 31 1  | 31 6  | 31 11 | 31 16 | 31 20 | 31 25 | 31 30 | 31 35 | 31 40 | 31 45 | 31 50 | 31 55 | 32 0  | 32 5  | 32 10 | 32 15 | 58 |
| 59 | 31 35 | 31 38 | 31 43 | 31 48 | 31 53 | 31 58 | 32 2  | 32 7  | 32 12 | 32 17 | 32 22 | 32 27 | 32 32 | 32 37 | 32 42 | 32 47 | 59 |
| 60 | 32 8  | 32 10 | 32 15 | 32 20 | 32 25 | 32 30 | 32 35 | 32 40 | 32 45 | 32 50 | 32 55 | 33 0  | 33 5  | 33 10 | 33 15 | 33 20 | 60 |
| 1  | 32 8  | 32 10 | 32 15 | 32 20 | 32 25 | 32 30 | 32 35 | 32 40 | 32 45 | 32 50 | 32 55 | 33 0  | 33 5  | 33 10 | 33 15 | 33 20 | 1  |
| 2  | 1 4   | 1 10  | 1 16  | 1 22  | 1 28  | 1 34  | 1 40  | 1 46  | 1 52  | 1 58  | 2 0   | 2 6   | 2 12  | 2 18  | 2 24  | 2 30  | 2  |
| 3  | 1 36  | 1 42  | 1 48  | 1 54  | 2 0   | 2 6   | 2 12  | 2 18  | 2 24  | 2 30  | 2 36  | 2 42  | 2 48  | 2 54  | 3 0   | 3 6   | 3  |
| 4  | 2 8   | 2 14  | 2 20  | 2 26  | 2 32  | 2 38  | 2 44  | 2 50  | 2 56  | 3 0   | 3 6   | 3 12  | 3 18  | 3 24  | 3 30  | 3 36  | 4  |
| 5  | 2 40  | 2 46  | 2 52  | 2 58  | 3 4   | 3 10  | 3 16  | 3 22  | 3 28  | 3 34  | 3 40  | 3 46  | 3 52  | 3 58  | 4 4   | 4 10  | 5  |
| 6  | 3 12  | 3 18  | 3 24  | 3 30  | 3 36  | 3 42  | 3 48  | 3 54  | 4 0   | 4 6   | 4 12  | 4 18  | 4 24  | 4 30  | 4 36  | 4 42  | 6  |
| 7  | 3 48  | 3 54  | 4 0   | 4 6   | 4 12  | 4 18  | 4 24  | 4 30  | 4 36  | 4 42  | 4 48  | 4 54  | 5 0   | 5 6   | 5 12  | 5 18  | 7  |
| 8  | 4 48  | 4 54  | 5 0   | 5 6   | 5 12  | 5 18  | 5 24  | 5 30  | 5 36  | 5 42  | 5 48  | 5 54  | 6 0   | 6 6   | 6 12  | 6 18  | 8  |
| 9  | 5 20  | 5 26  | 5 32  | 5 38  | 5 44  | 5 50  | 5 56  | 6 0   | 6 6   | 6 12  | 6 18  | 6 24  | 6 30  | 6 36  | 6 42  | 6 48  | 9  |
| 10 | 6 20  | 6 26  | 6 32  | 6 38  | 6 44  | 6 50  | 6 56  | 7 0   | 7 6   | 7 12  | 7 18  | 7 24  | 7 30  | 7 36  | 7 42  | 7 48  | 10 |
| 11 | 8 52  | 8 58  | 9 0   | 9 6   | 9 12  | 9 18  | 9 24  | 9 30  | 9 36  | 9 42  | 9 48  | 9 54  | 10 0  | 10 6  | 10 12 | 10 18 | 11 |
| 12 | 6 28  | 6 34  | 6 40  | 6 46  | 6 52  | 6 58  | 7 0   | 7 6   | 7 12  | 7 18  | 7 24  | 7 30  | 7 36  | 7 42  | 7 48  | 7 54  | 12 |

Table VI Semidiurnal Motion of the Moon

|   |    | 12 HOUR TRAVEL |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |
|---|----|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
|   |    | 6° 40'         | 6° 41' | 6° 42' | 6° 43' | 6° 44' | 6° 45' | 6° 46' | 6° 47' | 6° 48' | 6° 49' | 6° 50' | 6° 51' | 6° 52' | 6° 53' | 6° 54' | TIME |
| M | 1  | 0 33           | 0 34   | 0 34   | 0 34   | 0 34   | 0 34   | 0 34   | 0 34   | 0 34   | 0 34   | 0 34   | 0 34   | 0 34   | 0 34   | 0 35   | 1 M  |
| N | 2  | 1 7            | 1 7    | 1 7    | 1 7    | 1 7    | 1 7    | 1 7    | 1 7    | 1 7    | 1 7    | 1 7    | 1 7    | 1 7    | 1 7    | 1 9    | 2 N  |
| U | 3  | 1 40           | 1 40   | 1 41   | 1 41   | 1 41   | 1 41   | 1 42   | 1 42   | 1 42   | 1 42   | 1 42   | 1 42   | 1 42   | 1 43   | 1 43   | 3 U  |
| N | 4  | 2 14           | 2 14   | 2 14   | 2 15   | 2 15   | 2 15   | 2 16   | 2 16   | 2 16   | 2 16   | 2 16   | 2 17   | 2 17   | 2 17   | 2 18   | 4 N  |
| T | 5  | 2 47           | 2 47   | 2 47   | 2 48   | 2 48   | 2 48   | 2 49   | 2 49   | 2 50   | 2 50   | 2 50   | 2 51   | 2 52   | 2 52   | 2 53   | 5 T  |
| I | 6  | 3 20           | 3 20   | 3 21   | 3 22   | 3 22   | 3 23   | 3 23   | 3 23   | 3 24   | 3 24   | 3 24   | 3 25   | 3 26   | 3 26   | 3 27   | 6 I  |
| E | 7  | 3 54           | 3 54   | 3 54   | 3 55   | 3 56   | 3 56   | 3 57   | 3 57   | 3 57   | 3 58   | 3 59   | 3 59   | 4 0    | 4 0    | 4 1    | 7 E  |
|   | 8  | 4 27           | 4 27   | 4 28   | 4 28   | 4 29   | 4 30   | 4 31   | 4 31   | 4 32   | 4 33   | 4 33   | 4 34   | 4 35   | 4 35   | 4 36   | 8    |
|   | 9  | 5 1            | 5 1    | 5 2    | 5 2    | 5 3    | 5 3    | 5 4    | 5 4    | 5 5    | 5 6    | 5 6    | 5 7    | 5 7    | 5 8    | 5 8    | 9    |
|   | 10 | 5 33           | 5 34   | 5 35   | 5 35   | 5 37   | 5 38   | 5 38   | 5 39   | 5 40   | 5 41   | 5 42   | 5 43   | 5 43   | 5 44   | 5 45   | 10   |
|   | 11 | 6 7            | 6 8    | 6 8    | 6 9    | 6 10   | 6 11   | 6 12   | 6 13   | 6 14   | 6 15   | 6 16   | 6 17   | 6 18   | 6 19   | 6 19   | 11   |
|   | 12 | 6 40           | 6 41   | 6 42   | 6 43   | 6 44   | 6 45   | 6 46   | 6 47   | 6 48   | 6 49   | 6 50   | 6 51   | 6 52   | 6 53   | 6 54   | 12   |
|   | 13 | 7 13           | 7 14   | 7 15   | 7 17   | 7 18   | 7 19   | 7 20   | 7 21   | 7 22   | 7 23   | 7 24   | 7 25   | 7 26   | 7 27   | 7 28   | 13   |
|   | 14 | 7 47           | 7 48   | 7 49   | 7 50   | 7 51   | 7 53   | 7 54   | 7 55   | 7 56   | 7 57   | 7 58   | 7 59   | 8 0    | 8 0    | 8 1    | 14   |
|   | 15 | 8 20           | 8 21   | 8 22   | 8 24   | 8 25   | 8 26   | 8 27   | 8 29   | 8 30   | 8 31   | 8 32   | 8 34   | 8 35   | 8 36   | 8 37   | 15   |
|   | 16 | 8 53           | 8 55   | 8 56   | 8 57   | 8 59   | 9 0    | 9 1    | 9 3    | 9 4    | 9 5    | 9 7    | 7 8    | 9 9    | 9 11   | 9 12   | 16   |
|   | 17 | 9 27           | 9 28   | 9 29   | 9 31   | 9 32   | 9 34   | 9 35   | 9 37   | 9 38   | 9 39   | 9 41   | 9 42   | 9 44   | 9 45   | 9 46   | 17   |
|   | 18 | 10 0           | 10 1   | 10 3   | 10 4   | 10 6   | 10 7   | 10 9   | 10 10  | 10 12  | 10 13  | 10 15  | 10 16  | 10 18  | 10 19  | 10 21  | 18   |
|   | 19 | 10 37          | 10 38  | 10 36  | 10 35  | 10 40  | 10 41  | 10 43  | 10 44  | 10 46  | 10 48  | 10 49  | 10 51  | 10 52  | 10 54  | 10 55  | 19   |
|   | 20 | 11 7           | 11 8   | 11 10  | 11 12  | 11 13  | 11 14  | 11 17  | 11 18  | 11 20  | 11 21  | 11 23  | 11 23  | 11 27  | 11 28  | 11 30  | 20   |
|   | 21 | 11 40          | 11 42  | 11 43  | 11 45  | 11 47  | 11 49  | 11 50  | 11 52  | 11 54  | 11 56  | 11 57  | 11 59  | 12 1   | 12 3   | 12 4   | 21   |
|   | 22 | 12 13          | 12 15  | 12 17  | 12 19  | 12 21  | 12 22  | 12 24  | 12 26  | 12 28  | 12 30  | 12 32  | 12 33  | 12 36  | 12 37  | 12 39  | 22   |
|   | 23 | 12 47          | 12 49  | 12 50  | 12 52  | 12 54  | 12 56  | 13 0   | 13 2   | 13 4   | 13 6   | 13 6   | 13 8   | 13 10  | 13 12  | 13 13  | 23   |
|   | 24 | 13 20          | 13 22  | 13 24  | 13 26  | 13 28  | 13 30  | 13 33  | 13 34  | 13 36  | 13 38  | 13 40  | 13 42  | 13 44  | 13 46  | 13 48  | 24   |
|   | 25 | 13 53          | 13 55  | 13 57  | 14 0   | 14 2   | 14 4   | 14 6   | 14 8   | 14 10  | 14 12  | 14 14  | 14 16  | 14 18  | 14 20  | 14 22  | 25   |
|   | 26 | 14 27          | 14 29  | 14 31  | 14 33  | 14 35  | 14 37  | 14 40  | 14 42  | 14 44  | 14 46  | 14 48  | 14 50  | 14 53  | 14 55  | 14 57  | 26   |
|   | 27 | 15 0           | 15 2   | 15 4   | 15 7   | 15 9   | 15 11  | 15 13  | 15 15  | 15 18  | 15 18  | 15 20  | 15 22  | 15 25  | 15 27  | 15 31  | 27   |
|   | 28 | 15 32          | 15 35  | 15 38  | 15 40  | 15 43  | 15 46  | 15 47  | 15 50  | 15 52  | 15 54  | 15 57  | 15 59  | 16 1   | 16 4   | 16 6   | 28   |
|   | 29 | 16 7           | 16 9   | 16 11  | 16 14  | 16 16  | 16 18  | 16 21  | 16 24  | 16 26  | 16 28  | 16 31  | 16 33  | 16 36  | 16 38  | 16 41  | 29   |
|   | 30 | 16 40          | 16 42  | 16 45  | 16 48  | 16 50  | 16 53  | 16 55  | 16 57  | 17 0   | 17 3   | 17 5   | 17 8   | 17 10  | 17 12  | 17 15  | 30   |
|   | 31 | 17 13          | 17 15  | 17 19  | 17 21  | 17 24  | 17 26  | 17 29  | 17 31  | 17 34  | 17 37  | 17 39  | 17 42  | 17 44  | 17 47  | 17 49  | 31   |
|   | 32 | 17 47          | 17 49  | 17 52  | 17 55  | 17 57  | 18 0   | 18 3   | 18 5   | 18 8   | 18 11  | 18 13  | 18 16  | 18 18  | 18 21  | 18 24  | 32   |
|   | 33 | 18 20          | 18 23  | 18 26  | 18 28  | 18 31  | 18 34  | 18 37  | 18 39  | 18 42  | 18 45  | 18 48  | 18 50  | 18 53  | 18 55  | 18 58  | 33   |
|   | 34 | 18 53          | 18 56  | 18 59  | 19 2   | 19 5   | 19 10  | 19 13  | 19 16  | 19 19  | 19 22  | 19 25  | 19 28  | 19 30  | 19 33  | 19 36  | 34   |
|   | 35 | 19 27          | 19 30  | 19 33  | 19 35  | 19 38  | 19 41  | 19 44  | 19 47  | 19 50  | 19 53  | 19 56  | 19 59  | 20 2   | 20 5   | 20 8   | 35   |
|   | 36 | 20 0           | 20 3   | 20 6   | 20 9   | 20 12  | 20 15  | 20 18  | 20 21  | 20 24  | 20 27  | 20 30  | 20 33  | 20 36  | 20 39  | 20 42  | 36   |
|   | 37 | 20 32          | 20 36  | 20 39  | 20 43  | 20 46  | 20 49  | 20 52  | 20 56  | 20 58  | 21 1   | 21 4   | 21 7   | 21 10  | 21 13  | 21 16  | 37   |
|   | 38 | 21 7           | 21 10  | 21 13  | 21 16  | 21 19  | 21 23  | 21 26  | 21 29  | 21 32  | 21 35  | 21 38  | 21 41  | 21 45  | 21 48  | 21 51  | 38   |
|   | 39 | 21 46          | 21 49  | 21 52  | 21 55  | 21 58  | 22 0   | 22 3   | 22 6   | 22 9   | 22 12  | 22 15  | 22 18  | 22 21  | 22 24  | 22 26  | 39   |
|   | 40 | 22 13          | 22 17  | 22 20  | 22 23  | 22 27  | 22 30  | 22 33  | 22 37  | 22 40  | 22 43  | 22 47  | 22 50  | 22 53  | 22 57  | 23 0   | 40   |

|    |         |         |         |         |        |        |        |        |       |        |        |        |    |
|----|---------|---------|---------|---------|--------|--------|--------|--------|-------|--------|--------|--------|----|
| 41 | 22 50   | 22 53   | 22 57   | 23 0    | 23 4   | 23 11  | 23 17  | 23 21  | 23 24 | 23 26  | 23 31  | 23 34  | 41 |
| 42 | 23 20   | 23 23   | 23 30   | 23 34   | 23 38  | 23 41  | 23 45  | 23 51  | 23 55 | 24 2   | 24 5   | 24 9   | 42 |
| 43 | 23 53   | 23 57   | 24 0    | 24 4    | 24 18  | 24 18  | 24 22  | 24 26  | 24 30 | 24 36  | 24 40  | 24 44  | 43 |
| 44 | 24 27   | 24 30   | 24 34   | 24 41   | 24 45  | 24 52  | 24 52  | 25 0   | 25 3  | 25 11  | 25 14  | 25 18  | 44 |
| 45 | 25 0    | 25 4    | 25 8    | 25 11   | 25 15  | 25 19  | 25 26  | 25 30  | 25 38 | 25 43  | 25 49  | 25 53  | 45 |
| 46 | 25 33   | 25 37   | 25 41   | 25 45   | 25 49  | 25 53  | 25 56  | 26 0   | 26 12 | 26 16  | 26 19  | 26 27  | 46 |
| 47 | 26 7    | 26 11   | 26 18   | 26 22   | 26 26  | 26 30  | 26 34  | 26 38  | 26 46 | 26 54  | 26 58  | 27 1   | 47 |
| 48 | 26 40   | 26 44   | 26 48   | 26 52   | 26 56  | 27 0   | 27 4   | 27 8   | 27 16 | 27 20  | 27 28  | 27 36  | 48 |
| 49 | 27 13   | 27 17   | 27 22   | 27 26   | 27 30  | 27 34  | 27 38  | 27 42  | 27 46 | 27 50  | 27 58  | 28 6   | 49 |
| 50 | 27 47   | 27 51   | 27 55   | 27 59   | 28 3   | 28 7   | 28 12  | 28 16  | 28 20 | 28 24  | 28 32  | 28 41  | 50 |
| 51 | 28 20   | 28 24   | 28 28   | 28 32   | 28 37  | 28 41  | 28 45  | 28 50  | 28 54 | 28 58  | 29 2   | 29 19  | 51 |
| 52 | 29 6    | 29 11   | 29 15   | 29 19   | 29 24  | 29 28  | 29 32  | 29 37  | 29 41 | 29 45  | 29 50  | 29 54  | 52 |
| 53 | 29 27   | 29 31   | 29 35   | 29 40   | 29 44  | 29 48  | 29 53  | 30 2   | 30 11 | 30 20  | 30 24  | 30 29  | 53 |
| 54 | 30 0    | 30 4    | 30 9    | 30 13   | 30 18  | 30 23  | 30 27  | 30 31  | 30 36 | 30 40  | 30 49  | 30 54  | 54 |
| 55 | 30 33   | 30 38   | 30 43   | 30 47   | 30 52  | 30 56  | 31 1   | 31 5   | 31 10 | 31 15  | 31 24  | 31 33  | 55 |
| 56 | 31 7    | 31 11   | 31 16   | 31 21   | 31 25  | 31 30  | 31 35  | 31 39  | 31 44 | 31 49  | 31 55  | 32 7   | 56 |
| 57 | 31 40   | 31 45   | 31 49   | 31 54   | 32 0   | 32 4   | 32 8   | 32 13  | 32 18 | 32 23  | 32 27  | 32 42  | 57 |
| 58 | 32 13   | 32 18   | 32 23   | 32 28   | 32 33  | 32 38  | 32 42  | 32 47  | 32 52 | 33 0   | 33 7   | 33 16  | 58 |
| 59 | 32 47   | 32 52   | 32 57   | 33 1    | 33 6   | 33 11  | 33 16  | 33 21  | 33 26 | 33 31  | 33 36  | 33 41  | 59 |
| 60 | 33 20   | 33 25   | 33 30   | 33 35   | 33 40  | 33 45  | 33 50  | 33 55  | 34 0  | 34 5   | 34 10  | 34 15  | 60 |
| 61 | 33 20   | 33 25   | 33 30   | 33 35   | 33 40  | 33 45  | 33 50  | 33 55  | 34 0  | 34 5   | 34 10  | 34 15  | 61 |
| 62 | 1 6 40  | 1 6 50  | 1 7 0   | 1 7 10  | 1 7 20 | 1 7 30 | 1 7 40 | 1 7 50 | 1 8 0 | 1 8 10 | 1 8 20 | 1 8 30 | 62 |
| 63 | 1 40    | 1 40    | 1 40    | 1 40    | 1 41   | 1 41   | 1 41   | 1 41   | 1 42  | 1 42   | 1 43   | 1 43   | 63 |
| 64 | 2 13 20 | 2 13 20 | 2 13 20 | 2 13 20 | 2 14   | 2 14   | 2 14   | 2 14   | 2 16  | 2 16   | 2 17   | 2 17   | 64 |
| 65 | 2 46 40 | 2 47 9  | 2 47 9  | 2 47 9  | 2 48   | 2 48   | 2 49   | 2 49   | 2 50  | 2 50   | 2 51   | 2 52   | 65 |
| 66 | 3 20    | 3 20    | 3 20    | 3 21    | 3 22   | 3 22   | 3 23   | 3 23   | 3 24  | 3 25   | 3 26   | 3 27   | 66 |
| 67 | 3 53    | 3 53    | 3 53    | 3 54    | 3 55   | 3 55   | 3 56   | 3 56   | 3 57  | 3 58   | 3 59   | 4 0    | 67 |
| 68 | 4 26    | 4 26    | 4 27    | 4 28    | 4 29   | 4 30   | 4 30   | 4 31   | 4 32  | 4 33   | 4 34   | 4 35   | 68 |
| 69 | 5 0     | 5 0     | 5 0     | 5 0     | 5 1    | 5 1    | 5 1    | 5 2    | 5 2   | 5 3    | 5 3    | 5 4    | 69 |
| 70 | 5 33    | 5 34    | 5 35    | 5 35    | 5 36   | 5 37   | 5 38   | 5 39   | 5 40  | 5 40   | 5 42   | 5 43   | 70 |
| 71 | 6 6     | 6 6     | 6 6     | 6 6     | 6 7    | 6 7    | 6 7    | 6 8    | 6 8   | 6 9    | 6 10   | 6 11   | 71 |
| 72 | 6 40    | 6 41    | 6 42    | 6 43    | 6 44   | 6 45   | 6 46   | 6 47   | 6 48  | 6 49   | 6 50   | 6 51   | 72 |

Table VI Semidiurnal Motion of the Moon

| TIME | 12 HOUR TRAVEL |        |        |        |        |       |       |       |       |       |       |       | TIME  |       |       |
|------|----------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | 6° 55'         | 6° 56' | 6° 57' | 6° 58' | 6° 59' | 7° 0' | 7° 1' | 7° 2' | 7° 3' | 7° 4' | 7° 5' | 7° 6' |       | 7° 7' | 7° 8' |
| 1    | 0 35           | 0 35   | 0 35   | 0 35   | 0 35   | 0 35  | 0 35  | 0 35  | 0 35  | 0 35  | 0 35  | 0 36  | 0 36  | 0 36  | 0 36  |
| 2    | 1 9            | 1 9    | 1 9    | 1 10   | 1 10   | 1 10  | 1 10  | 1 10  | 1 11  | 1 11  | 1 11  | 1 11  | 1 11  | 1 11  | 1 11  |
| 3    | 1 48           | 1 48   | 1 48   | 1 48   | 1 48   | 1 48  | 1 48  | 1 48  | 1 46  | 1 46  | 1 46  | 1 46  | 1 47  | 1 47  | 1 47  |
| 4    | 2 15           | 2 15   | 2 15   | 2 15   | 2 15   | 2 15  | 2 15  | 2 15  | 2 21  | 2 21  | 2 22  | 2 22  | 2 23  | 2 23  | 2 23  |
| 5    | 2 53           | 2 53   | 2 54   | 2 54   | 2 55   | 2 55  | 2 55  | 2 55  | 2 56  | 2 56  | 2 57  | 2 57  | 2 58  | 2 58  | 2 59  |
| 6    | 3 27           | 3 28   | 3 28   | 3 29   | 3 30   | 3 30  | 3 31  | 3 31  | 3 31  | 3 32  | 3 32  | 3 33  | 3 34  | 3 34  | 3 34  |
| 7    | 4 2            | 4 3    | 4 3    | 4 4    | 4 4    | 4 4   | 4 4   | 4 4   | 4 6   | 4 7   | 4 7   | 4 8   | 4 9   | 4 10  | 4 10  |
| 8    | 4 37           | 4 37   | 4 38   | 4 39   | 4 39   | 4 40  | 4 41  | 4 41  | 4 42  | 4 43  | 4 43  | 4 44  | 4 45  | 4 46  | 4 46  |
| 9    | 5 11           | 5 12   | 5 13   | 5 13   | 5 14   | 5 15  | 5 16  | 5 16  | 5 18  | 5 18  | 5 19  | 5 19  | 5 20  | 5 21  | 5 22  |
| 10   | 5 46           | 5 47   | 5 47   | 5 48   | 5 49   | 5 50  | 5 51  | 5 52  | 5 53  | 5 53  | 5 54  | 5 55  | 5 56  | 5 57  | 5 57  |
| 11   | 6 20           | 6 21   | 6 22   | 6 23   | 6 24   | 6 25  | 6 26  | 6 27  | 6 28  | 6 29  | 6 30  | 6 31  | 6 32  | 6 33  | 6 33  |
| 12   | 7 03           | 7 06   | 7 07   | 7 08   | 7 09   | 7 10  | 7 11  | 7 12  | 7 13  | 7 14  | 7 15  | 7 16  | 7 17  | 7 18  | 7 19  |
| 13   | 7 50           | 7 51   | 7 52   | 7 53   | 7 54   | 7 55  | 7 56  | 7 57  | 7 58  | 7 59  | 8 00  | 8 01  | 8 02  | 8 03  | 8 04  |
| 14   | 8 4            | 8 5    | 8 6    | 8 7    | 8 8    | 8 9   | 8 10  | 8 11  | 8 12  | 8 13  | 8 14  | 8 15  | 8 16  | 8 17  | 8 18  |
| 15   | 8 39           | 8 40   | 8 41   | 8 42   | 8 43   | 8 44  | 8 45  | 8 46  | 8 47  | 8 48  | 8 49  | 8 50  | 8 51  | 8 52  | 8 53  |
| 16   | 9 13           | 9 15   | 9 16   | 9 17   | 9 19   | 9 20  | 9 21  | 9 23  | 9 24  | 9 25  | 9 27  | 9 28  | 9 29  | 9 31  | 9 32  |
| 17   | 9 48           | 9 49   | 9 51   | 9 52   | 9 54   | 9 55  | 9 56  | 9 58  | 9 59  | 10 1  | 10 2  | 10 3  | 10 4  | 10 5  | 10 6  |
| 18   | 10 22          | 10 24  | 10 25  | 10 27  | 10 28  | 10 30 | 10 31 | 10 33 | 10 34 | 10 36 | 10 37 | 10 39 | 10 40 | 10 42 | 10 43 |
| 19   | 10 57          | 10 59  | 11 0   | 11 2   | 11 3   | 11 5  | 11 7  | 11 8  | 11 10 | 11 11 | 11 13 | 11 14 | 11 16 | 11 18 | 11 19 |
| 20   | 11 32          | 11 33  | 11 35  | 11 37  | 11 38  | 11 40 | 11 42 | 11 43 | 11 45 | 11 47 | 11 48 | 11 50 | 11 52 | 11 53 | 11 55 |
| 21   | 12 6           | 12 8   | 12 10  | 12 11  | 12 13  | 12 15 | 12 17 | 12 18 | 12 20 | 12 22 | 12 24 | 12 25 | 12 27 | 12 29 | 12 31 |
| 22   | 12 41          | 12 43  | 12 44  | 12 46  | 12 48  | 12 50 | 12 52 | 12 54 | 12 55 | 12 57 | 12 59 | 13 1  | 13 3  | 13 5  | 13 6  |
| 23   | 13 15          | 13 17  | 13 19  | 13 21  | 13 23  | 13 25 | 13 27 | 13 29 | 13 31 | 13 33 | 13 35 | 13 36 | 13 38 | 13 40 | 13 42 |
| 24   | 13 50          | 13 52  | 13 54  | 13 56  | 13 58  | 14 0  | 14 2  | 14 4  | 14 6  | 14 8  | 14 10 | 14 12 | 14 14 | 14 16 | 14 18 |
| 25   | 14 25          | 14 27  | 14 29  | 14 31  | 14 33  | 14 35 | 14 37 | 14 39 | 14 41 | 14 43 | 14 45 | 14 47 | 14 50 | 14 52 | 14 54 |
| 26   | 14 59          | 15 1   | 15 3   | 15 6   | 15 8   | 15 10 | 15 12 | 15 14 | 15 16 | 15 19 | 15 21 | 15 23 | 15 25 | 15 27 | 15 29 |
| 27   | 15 34          | 15 36  | 15 38  | 15 40  | 15 43  | 15 45 | 15 47 | 15 49 | 15 52 | 15 54 | 15 56 | 15 58 | 16 0  | 16 3  | 16 5  |
| 28   | 16 8           | 16 11  | 16 13  | 16 15  | 16 18  | 16 20 | 16 22 | 16 25 | 16 27 | 16 29 | 16 32 | 16 34 | 16 36 | 16 39 | 16 42 |
| 29   | 16 43          | 16 45  | 16 48  | 16 50  | 16 53  | 16 55 | 16 57 | 17 0  | 17 2  | 17 5  | 17 7  | 17 9  | 17 12 | 17 14 | 17 17 |
| 30   | 17 18          | 17 20  | 17 23  | 17 25  | 17 27  | 17 30 | 17 33 | 17 35 | 17 38 | 17 40 | 17 42 | 17 45 | 17 48 | 17 50 | 17 53 |
| 31   | 17 55          | 17 57  | 18 0   | 18 2   | 18 3   | 18 5  | 18 6  | 18 10 | 18 13 | 18 15 | 18 18 | 18 20 | 18 23 | 18 26 | 18 29 |
| 32   | 18 27          | 18 29  | 18 32  | 18 35  | 18 37  | 18 40 | 18 43 | 18 45 | 18 48 | 18 51 | 18 54 | 18 56 | 18 59 | 19 1  | 19 4  |
| 33   | 19 1           | 19 4   | 19 7   | 19 9   | 19 12  | 19 15 | 19 18 | 19 20 | 19 23 | 19 26 | 19 29 | 19 31 | 19 34 | 19 37 | 19 40 |
| 34   | 19 36          | 19 39  | 19 41  | 19 44  | 19 47  | 19 50 | 19 53 | 19 56 | 20 1  | 20 4  | 20 7  | 20 10 | 20 13 | 20 16 | 20 18 |
| 35   | 20 10          | 20 13  | 20 16  | 20 19  | 20 22  | 20 25 | 20 28 | 20 31 | 20 34 | 20 37 | 20 40 | 20 42 | 20 45 | 20 48 | 20 51 |
| 36   | 20 45          | 20 48  | 20 51  | 20 54  | 20 57  | 21 0  | 21 3  | 21 6  | 21 9  | 21 12 | 21 15 | 21 18 | 21 21 | 21 24 | 21 27 |
| 37   | 21 20          | 21 23  | 21 26  | 21 29  | 21 32  | 21 35 | 21 38 | 21 41 | 21 44 | 21 47 | 21 50 | 21 53 | 21 57 | 22 0  | 22 3  |
| 38   | 21 54          | 21 57  | 22 0   | 22 4   | 22 7   | 22 10 | 22 13 | 22 16 | 22 19 | 22 22 | 22 25 | 22 28 | 22 31 | 22 34 | 22 37 |
| 39   | 22 29          | 22 32  | 22 35  | 22 38  | 22 42  | 22 45 | 22 48 | 22 52 | 22 55 | 22 58 | 23 1  | 23 4  | 23 7  | 23 11 | 23 14 |
| 40   | 23 3           | 23 7   | 23 10  | 23 13  | 23 17  | 23 20 | 23 23 | 23 27 | 23 30 | 23 33 | 23 37 | 23 40 | 23 43 | 23 47 | 23 50 |

|    |         |         |         |         |         |        |         |         |         |         |         |         |         |         |         |    |
|----|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|
| 41 | 23 58   | 23 41   | 23 45   | 23 48   | 23 52   | 23 55  | 23 58   | 24 2    | 24 5    | 24 9    | 24 12   | 24 15   | 24 19   | 24 22   | 24 26   | 41 |
| 42 | 24 12   | 24 16   | 24 19   | 24 23   | 24 26   | 24 30  | 24 34   | 24 37   | 24 41   | 24 44   | 24 48   | 24 51   | 24 54   | 24 58   | 25 1    | 42 |
| 43 | 24 17   | 24 21   | 24 24   | 24 28   | 24 31   | 24 35  | 24 39   | 24 42   | 24 46   | 24 49   | 24 53   | 24 56   | 24 60   | 24 64   | 24 68   | 43 |
| 44 | 25 1    | 25 5    | 25 9    | 25 13   | 25 17   | 25 21  | 25 25   | 25 28   | 25 32   | 25 35   | 25 39   | 25 42   | 25 46   | 25 50   | 25 54   | 44 |
| 45 | 25 6    | 25 10   | 25 14   | 25 18   | 25 22   | 25 26  | 25 30   | 25 33   | 25 37   | 25 40   | 25 44   | 25 47   | 25 51   | 25 55   | 25 59   | 45 |
| 46 | 26 31   | 26 35   | 26 39   | 26 42   | 26 46   | 26 50  | 26 54   | 26 58   | 27 2    | 27 5    | 27 9    | 27 13   | 27 17   | 27 21   | 27 25   | 46 |
| 47 | 27 5    | 27 9    | 27 13   | 27 17   | 27 21   | 27 25  | 27 29   | 27 33   | 27 37   | 27 41   | 27 45   | 27 48   | 27 52   | 27 56   | 28 0    | 47 |
| 48 | 27 40   | 27 44   | 27 48   | 27 52   | 27 56   | 28 0   | 28 4    | 28 8    | 28 12   | 28 16   | 28 20   | 28 24   | 28 28   | 28 32   | 28 36   | 48 |
| 49 | 28 15   | 28 19   | 28 23   | 28 27   | 28 31   | 28 35  | 28 39   | 28 43   | 28 47   | 28 51   | 28 55   | 29 0    | 29 4    | 29 8    | 29 12   | 49 |
| 50 | 28 49   | 28 53   | 28 57   | 29 0    | 29 4    | 29 8   | 29 12   | 29 16   | 29 20   | 29 24   | 29 28   | 29 32   | 29 36   | 29 40   | 29 44   | 50 |
| 51 | 29 24   | 29 28   | 29 32   | 29 37   | 29 41   | 29 45  | 29 49   | 29 53   | 29 58   | 30 2    | 30 6    | 30 11   | 30 15   | 30 19   | 30 23   | 51 |
| 52 | 29 58   | 30 3    | 30 7    | 30 11   | 30 16   | 30 20  | 30 24   | 30 29   | 30 33   | 30 37   | 30 42   | 30 46   | 30 50   | 30 55   | 30 59   | 52 |
| 53 | 30 33   | 30 37   | 30 42   | 30 46   | 30 51   | 30 55  | 30 59   | 31 4    | 31 8    | 31 13   | 31 17   | 31 22   | 31 26   | 31 30   | 31 35   | 53 |
| 54 | 31 8    | 31 12   | 31 16   | 31 21   | 31 25   | 31 30  | 31 34   | 31 39   | 31 43   | 31 48   | 31 53   | 31 57   | 32 1    | 32 6    | 32 10   | 54 |
| 55 | 31 42   | 31 47   | 31 51   | 31 56   | 32 0    | 32 5   | 32 10   | 32 14   | 32 19   | 32 23   | 32 28   | 32 33   | 32 37   | 32 42   | 32 46   | 55 |
| 56 | 32 17   | 32 21   | 32 26   | 32 31   | 32 35   | 32 40  | 32 45   | 32 49   | 32 54   | 32 59   | 33 3    | 33 8    | 33 13   | 33 17   | 33 22   | 56 |
| 57 | 32 54   | 33 0    | 33 5    | 33 10   | 33 15   | 33 19  | 33 24   | 33 29   | 33 34   | 33 39   | 33 43   | 33 48   | 33 53   | 33 58   | 34 0    | 57 |
| 58 | 33 2    | 33 6    | 33 11   | 33 16   | 33 21   | 33 25  | 33 30   | 33 35   | 33 40   | 33 45   | 33 50   | 33 55   | 34 0    | 34 5    | 34 10   | 58 |
| 59 | 34 0    | 34 5    | 34 10   | 34 15   | 34 20   | 34 25  | 34 30   | 34 35   | 34 40   | 34 45   | 34 50   | 34 55   | 35 0    | 35 5    | 35 10   | 59 |
| 60 | 34 35   | 34 40   | 34 45   | 34 50   | 34 55   | 35 0   | 35 5    | 35 10   | 35 15   | 35 20   | 35 25   | 35 30   | 35 35   | 35 40   | 35 45   | 60 |
| 61 | 34 35   | 34 40   | 34 45   | 34 50   | 34 55   | 35 0   | 35 5    | 35 10   | 35 15   | 35 20   | 35 25   | 35 30   | 35 35   | 35 40   | 35 45   | 61 |
| 62 | 1 9 10  | 1 9 20  | 1 9 30  | 1 9 40  | 1 9 50  | 1 10 0 | 1 10 10 | 1 10 20 | 1 10 30 | 1 10 40 | 1 10 50 | 1 11 0  | 1 11 10 | 1 11 20 | 1 11 30 | 62 |
| 63 | 1 43 45 | 1 44 0  | 1 44 15 | 1 44 30 | 1 44 45 | 1 45 0 | 1 45 15 | 1 45 30 | 1 45 45 | 1 46 0  | 1 46 15 | 1 46 30 | 1 46 45 | 1 47 0  | 1 47 15 | 63 |
| 64 | 2 18 20 | 2 18 40 | 2 19 0  | 2 19 20 | 2 19 40 | 2 20 0 | 2 20 20 | 2 20 40 | 2 21 0  | 2 21 20 | 2 21 40 | 2 22 0  | 2 22 20 | 2 22 40 | 2 23 0  | 64 |
| 65 | 2 52 55 | 2 53 20 | 2 53 45 | 2 54 10 | 2 54 35 | 2 55 0 | 2 55 25 | 2 55 50 | 2 56 15 | 2 56 40 | 2 57 5  | 2 57 30 | 2 57 55 | 2 58 20 | 2 58 45 | 65 |
| 66 | 3 27 30 | 3 28 0  | 3 28 30 | 3 29 0  | 3 29 30 | 3 30 0 | 3 30 30 | 3 31 0  | 3 31 30 | 3 32 0  | 3 32 30 | 3 33 0  | 3 33 30 | 3 34 0  | 3 34 30 | 66 |
| 67 | 4 2     | 4 5     | 4 10    | 4 15    | 4 20    | 4 25   | 4 30    | 4 35    | 4 40    | 4 45    | 4 50    | 4 55    | 5 0     | 5 5     | 5 10    | 67 |
| 68 | 5 36 40 | 5 37 0  | 5 38 0  | 5 39 0  | 5 40 0  | 5 41 0 | 5 42 0  | 5 43 0  | 5 44 0  | 5 45 0  | 5 46 0  | 5 47 0  | 5 48 0  | 5 49 0  | 5 50 0  | 68 |
| 69 | 5 11 5  | 5 12 0  | 5 12 5  | 5 13 0  | 5 13 5  | 5 14 0 | 5 14 5  | 5 15 0  | 5 15 5  | 5 16 0  | 5 16 5  | 5 17 0  | 5 17 5  | 5 18 0  | 5 18 5  | 69 |
| 70 | 5 45 50 | 5 46 0  | 5 47 0  | 5 48 0  | 5 49 0  | 5 50 0 | 5 50 5  | 5 51 0  | 5 52 0  | 5 53 0  | 5 54 0  | 5 55 0  | 5 56 0  | 5 57 0  | 5 58 0  | 70 |
| 71 | 6 20 25 | 6 21 20 | 6 22 15 | 6 23 10 | 6 24 5  | 6 25 0 | 6 25 5  | 6 26 5  | 6 27 5  | 6 28 5  | 6 29 5  | 6 30 30 | 6 31 28 | 6 32 20 | 6 33 15 | 71 |
| 72 | 6 53 0  | 6 54 0  | 6 55 0  | 6 56 0  | 6 57 0  | 6 58 0 | 6 59 0  | 7 0     | 7 1 0   | 7 2 0   | 7 3 0   | 7 4 0   | 7 5 0   | 7 6 0   | 7 7 0   | 72 |

Table VI Semidiurnal Motion of the Moon

| TIME | 12 HOUR TRAVEL |        |        |        |        |        |        |        |        |        |        |        |        |        | TIME  |
|------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
|      | 7° 10'         | 7° 11' | 7° 12' | 7° 13' | 7° 14' | 7° 15' | 7° 16' | 7° 17' | 7° 18' | 7° 19' | 7° 20' | 7° 21' | 7° 22' | 7° 23' |       |
| 1    | 0 36           | 0 36   | 0 36   | 0 36   | 0 36   | 0 36   | 0 36   | 0 36   | 0 37   | 0 37   | 0 37   | 0 37   | 0 37   | 0 37   | 0 37  |
| 2    | 1 12           | 1 12   | 1 12   | 1 12   | 1 12   | 1 12   | 1 12   | 1 13   | 1 13   | 1 13   | 1 13   | 1 13   | 1 14   | 1 14   | 1 14  |
| 3    | 1 48           | 1 48   | 1 48   | 1 48   | 1 48   | 1 48   | 1 48   | 1 49   | 1 49   | 1 50   | 1 50   | 1 50   | 1 50   | 1 51   | 1 51  |
| 4    | 2 24           | 2 24   | 2 24   | 2 24   | 2 24   | 2 25   | 2 25   | 2 25   | 2 26   | 2 27   | 2 27   | 2 27   | 2 27   | 2 28   | 2 28  |
| 5    | 3 0            | 3 0    | 3 0    | 3 0    | 3 1    | 3 1    | 3 1    | 3 2    | 3 2    | 3 3    | 3 3    | 3 4    | 3 4    | 3 4    | 3 5   |
| 6    | 3 36           | 3 36   | 3 36   | 3 37   | 3 37   | 3 38   | 3 38   | 3 38   | 3 39   | 3 39   | 3 40   | 3 41   | 3 41   | 3 42   | 3 42  |
| 7    | 4 11           | 4 11   | 4 12   | 4 13   | 4 13   | 4 14   | 4 14   | 4 15   | 4 15   | 4 16   | 4 17   | 4 17   | 4 18   | 4 18   | 4 19  |
| 8    | 4 47           | 4 47   | 4 48   | 4 49   | 4 49   | 4 50   | 4 51   | 4 51   | 4 52   | 4 53   | 4 53   | 4 54   | 4 55   | 4 55   | 4 56  |
| 9    | 5 23           | 5 23   | 5 24   | 5 25   | 5 25   | 5 26   | 5 27   | 5 28   | 5 28   | 5 29   | 5 30   | 5 31   | 5 31   | 5 32   | 5 33  |
| 10   | 5 58           | 5 59   | 6 0    | 6 1    | 6 2    | 6 2    | 6 3    | 6 4    | 6 5    | 6 6    | 6 7    | 6 8    | 6 8    | 6 9    | 6 10  |
| 11   | 6 34           | 6 35   | 6 36   | 6 37   | 6 38   | 6 39   | 6 40   | 6 41   | 6 42   | 6 42   | 6 43   | 6 44   | 6 45   | 6 46   | 6 47  |
| 12   | 7 10           | 7 11   | 7 12   | 7 13   | 7 14   | 7 15   | 7 16   | 7 17   | 7 18   | 7 19   | 7 20   | 7 21   | 7 22   | 7 23   | 7 24  |
| 13   | 7 46           | 7 47   | 7 48   | 7 49   | 7 50   | 7 51   | 7 52   | 7 53   | 7 54   | 7 55   | 7 56   | 7 57   | 7 58   | 8 0    | 8 1   |
| 14   | 8 22           | 8 23   | 8 24   | 8 25   | 8 26   | 8 27   | 8 28   | 8 30   | 8 31   | 8 32   | 8 33   | 8 34   | 8 35   | 8 37   | 8 38  |
| 15   | 8 57           | 8 59   | 9 0    | 9 1    | 9 2    | 9 4    | 9 5    | 9 6    | 9 7    | 9 9    | 9 10   | 9 11   | 9 12   | 9 14   | 9 15  |
| 16   | 9 33           | 9 33   | 9 36   | 9 37   | 9 39   | 9 40   | 9 41   | 9 43   | 9 44   | 9 45   | 9 47   | 9 48   | 9 49   | 9 51   | 9 52  |
| 17   | 10 9           | 10 11  | 10 12  | 10 13  | 10 15  | 10 16  | 10 18  | 10 19  | 10 20  | 10 22  | 10 23  | 10 25  | 10 26  | 10 29  | 10 31 |
| 18   | 10 45          | 10 46  | 10 48  | 10 49  | 10 51  | 10 52  | 10 54  | 10 55  | 10 57  | 10 58  | 11 0   | 11 1   | 11 3   | 11 4   | 11 6  |
| 19   | 11 21          | 11 22  | 11 24  | 11 26  | 11 27  | 11 29  | 11 30  | 11 32  | 11 33  | 11 35  | 11 37  | 11 38  | 11 40  | 11 41  | 11 43 |
| 20   | 11 57          | 11 58  | 12 0   | 12 2   | 12 3   | 12 5   | 12 6   | 12 8   | 12 9   | 12 12  | 12 13  | 12 15  | 12 17  | 12 18  | 12 20 |
| 21   | 12 34          | 12 34  | 12 36  | 12 38  | 12 39  | 12 41  | 12 43  | 12 45  | 12 46  | 12 48  | 12 50  | 12 52  | 12 53  | 12 55  | 12 57 |
| 22   | 13 8           | 13 10  | 13 12  | 13 14  | 13 16  | 13 17  | 13 19  | 13 21  | 13 23  | 13 25  | 13 27  | 13 30  | 13 32  | 13 34  | 13 36 |
| 23   | 13 44          | 13 46  | 13 48  | 13 50  | 13 52  | 13 54  | 13 56  | 13 58  | 13 59  | 14 1   | 14 3   | 14 5   | 14 7   | 14 9   | 14 11 |
| 24   | 14 20          | 14 22  | 14 24  | 14 26  | 14 28  | 14 30  | 14 32  | 14 34  | 14 36  | 14 38  | 14 40  | 14 42  | 14 44  | 14 46  | 14 48 |
| 25   | 14 56          | 14 58  | 15 0   | 15 2   | 15 4   | 15 6   | 15 8   | 15 10  | 15 12  | 15 15  | 15 17  | 15 19  | 15 21  | 15 23  | 15 25 |
| 26   | 15 32          | 15 34  | 15 36  | 15 38  | 15 40  | 15 42  | 15 45  | 15 47  | 15 49  | 15 51  | 15 53  | 15 55  | 15 58  | 16 0   | 16 2  |
| 27   | 16 8           | 16 10  | 16 12  | 16 14  | 16 16  | 16 18  | 16 21  | 16 23  | 16 26  | 16 28  | 16 30  | 16 32  | 16 34  | 16 37  | 16 39 |
| 28   | 16 43          | 16 46  | 16 48  | 16 50  | 16 53  | 16 55  | 16 57  | 17 0   | 17 2   | 17 4   | 17 7   | 17 9   | 17 11  | 17 14  | 17 16 |
| 29   | 17 19          | 17 22  | 17 24  | 17 26  | 17 29  | 17 31  | 17 34  | 17 36  | 17 38  | 17 41  | 17 43  | 17 46  | 17 48  | 17 51  | 17 53 |
| 30   | 17 55          | 17 57  | 18 0   | 18 3   | 18 5   | 18 8   | 18 10  | 18 12  | 18 15  | 18 18  | 18 20  | 18 23  | 18 25  | 18 27  | 18 30 |
| 31   | 18 31          | 18 33  | 18 36  | 18 39  | 18 41  | 18 44  | 18 46  | 18 49  | 18 52  | 18 54  | 18 57  | 18 59  | 19 2   | 19 4   | 19 7  |
| 32   | 19 7           | 19 9   | 19 12  | 19 15  | 19 17  | 19 20  | 19 23  | 19 26  | 19 28  | 19 31  | 19 33  | 19 36  | 19 39  | 19 41  | 19 44 |
| 33   | 19 42          | 19 45  | 19 48  | 19 51  | 19 53  | 19 56  | 19 59  | 20 2   | 20 5   | 20 7   | 20 10  | 20 13  | 20 15  | 20 18  | 20 21 |
| 34   | 20 18          | 20 21  | 20 24  | 20 27  | 20 30  | 20 33  | 20 36  | 20 38  | 20 41  | 20 44  | 20 47  | 20 50  | 20 53  | 20 56  | 20 59 |
| 35   | 20 54          | 20 57  | 21 0   | 21 3   | 21 6   | 21 9   | 21 12  | 21 15  | 21 18  | 21 20  | 21 23  | 21 26  | 21 29  | 21 32  | 21 35 |
| 36   | 21 30          | 21 33  | 21 36  | 21 39  | 21 42  | 21 45  | 21 48  | 21 51  | 21 54  | 21 57  | 22 0   | 22 3   | 22 6   | 22 9   | 22 12 |
| 37   | 22 6           | 22 9   | 22 12  | 22 15  | 22 18  | 22 21  | 22 24  | 22 27  | 22 30  | 22 34  | 22 37  | 22 40  | 22 43  | 22 46  | 22 49 |
| 38   | 22 42          | 22 45  | 22 48  | 22 51  | 22 54  | 22 57  | 23 1   | 23 4   | 23 7   | 23 10  | 23 13  | 23 16  | 23 20  | 23 23  | 23 26 |
| 39   | 23 18          | 23 21  | 23 24  | 23 27  | 23 30  | 23 34  | 23 37  | 23 40  | 23 44  | 23 47  | 23 50  | 23 53  | 23 56  | 24 0   | 24 3  |
| 40   | 23 53          | 23 57  | 24 0   | 24 3   | 24 7   | 24 10  | 24 13  | 24 17  | 24 20  | 24 23  | 24 27  | 24 30  | 24 33  | 24 37  | 24 40 |



|    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 41 | 24 29 | 24 33 | 24 36 | 24 39 | 24 43 | 24 46 | 24 50 | 24 53 | 24 56 | 25 0  | 25 3  | 25 7  | 25 10 | 25 14 | 25 17 | 25 41 |
| 42 | 25 8  | 25 12 | 25 15 | 25 18 | 25 22 | 25 25 | 25 28 | 25 30 | 25 33 | 25 37 | 25 40 | 25 43 | 25 47 | 25 50 | 25 54 | 26 1  |
| 43 | 26 4  | 26 8  | 26 11 | 26 14 | 26 18 | 26 21 | 26 24 | 26 26 | 26 29 | 26 32 | 26 35 | 26 38 | 26 41 | 26 44 | 26 47 | 26 50 |
| 44 | 26 17 | 26 20 | 26 23 | 26 26 | 26 30 | 26 33 | 26 36 | 26 39 | 26 42 | 26 45 | 26 48 | 26 51 | 26 54 | 26 57 | 27 0  | 27 3  |
| 45 | 26 55 | 27 4  | 27 7  | 27 11 | 27 15 | 27 18 | 27 21 | 27 23 | 27 26 | 27 29 | 27 32 | 27 35 | 27 38 | 27 41 | 27 44 | 27 47 |
| 46 | 27 28 | 27 32 | 27 36 | 27 40 | 27 44 | 27 48 | 27 51 | 27 55 | 27 59 | 28 3  | 28 7  | 28 11 | 28 14 | 28 18 | 28 22 | 28 26 |
| 47 | 28 4  | 28 8  | 28 12 | 28 16 | 28 20 | 28 24 | 28 28 | 28 32 | 28 36 | 28 39 | 28 43 | 28 47 | 28 51 | 28 55 | 28 59 | 29 3  |
| 48 | 28 40 | 28 44 | 28 48 | 28 52 | 28 56 | 29 0  | 29 4  | 29 8  | 29 12 | 29 16 | 29 20 | 29 24 | 29 28 | 29 32 | 29 36 | 29 40 |
| 49 | 29 16 | 29 20 | 29 24 | 29 28 | 29 32 | 29 36 | 29 40 | 29 44 | 29 48 | 29 52 | 29 56 | 30 0  | 30 4  | 30 8  | 30 12 | 30 16 |
| 50 | 29 52 | 29 56 | 30 0  | 30 4  | 30 8  | 30 12 | 30 16 | 30 20 | 30 24 | 30 28 | 30 32 | 30 36 | 30 40 | 30 44 | 30 48 | 30 52 |
| 51 | 30 27 | 30 32 | 30 36 | 30 40 | 30 45 | 30 49 | 30 53 | 30 57 | 31 1  | 31 5  | 31 10 | 31 14 | 31 19 | 31 23 | 31 27 | 31 31 |
| 52 | 31 3  | 31 8  | 31 12 | 31 16 | 31 20 | 31 25 | 31 29 | 31 34 | 31 38 | 31 42 | 31 47 | 31 51 | 31 55 | 32 0  | 32 4  | 32 8  |
| 53 | 31 39 | 31 44 | 31 48 | 31 52 | 31 57 | 32 1  | 32 6  | 32 10 | 32 15 | 32 19 | 32 23 | 32 28 | 32 32 | 32 37 | 32 41 | 32 45 |
| 54 | 32 15 | 32 19 | 32 24 | 32 28 | 32 33 | 32 38 | 32 42 | 32 46 | 32 51 | 32 55 | 33 0  | 33 4  | 33 9  | 33 13 | 33 18 | 33 22 |
| 55 | 32 51 | 32 55 | 33 0  | 33 5  | 33 9  | 33 14 | 33 18 | 33 23 | 33 28 | 33 32 | 33 37 | 33 41 | 33 46 | 33 50 | 33 55 | 34 0  |
| 56 | 33 27 | 33 31 | 33 36 | 33 41 | 33 45 | 33 50 | 33 55 | 33 59 | 34 4  | 34 9  | 34 13 | 34 18 | 34 23 | 34 27 | 34 32 | 34 36 |
| 57 | 34 3  | 34 7  | 34 12 | 34 17 | 34 21 | 34 26 | 34 31 | 34 36 | 34 40 | 34 45 | 34 50 | 34 55 | 34 59 | 35 4  | 35 9  | 35 13 |
| 58 | 34 35 | 34 40 | 34 45 | 34 50 | 34 55 | 35 0  | 35 5  | 35 10 | 35 15 | 35 20 | 35 25 | 35 30 | 35 35 | 35 40 | 35 45 | 35 50 |
| 59 | 35 14 | 35 19 | 35 24 | 35 29 | 35 34 | 35 39 | 35 44 | 35 49 | 35 54 | 36 0  | 36 5  | 36 10 | 36 15 | 36 20 | 36 25 | 36 30 |
| 60 | 35 50 | 35 55 | 36 0  | 36 5  | 36 10 | 36 15 | 36 20 | 36 25 | 36 30 | 36 35 | 36 40 | 36 45 | 36 50 | 36 55 | 37 0  | 37 5  |
| 61 | 35 50 | 35 55 | 36 0  | 36 5  | 36 10 | 36 15 | 36 20 | 36 25 | 36 30 | 36 35 | 36 40 | 36 45 | 36 50 | 36 55 | 37 0  | 37 5  |
| 62 | 1 11  | 1 16  | 1 21  | 1 26  | 1 31  | 1 36  | 1 41  | 1 46  | 1 51  | 1 56  | 2 0   | 2 5   | 2 10  | 2 15  | 2 20  | 2 25  |
| 63 | 1 47  | 1 52  | 1 57  | 2 0   | 2 5   | 2 10  | 2 15  | 2 20  | 2 25  | 2 30  | 2 35  | 2 40  | 2 45  | 2 50  | 2 55  | 3 0   |
| 64 | 2 23  | 2 28  | 2 33  | 2 38  | 2 43  | 2 48  | 2 53  | 2 58  | 3 0   | 3 5   | 3 10  | 3 15  | 3 20  | 3 25  | 3 30  | 3 35  |
| 65 | 2 59  | 3 0   | 3 5   | 3 10  | 3 15  | 3 20  | 3 25  | 3 30  | 3 35  | 3 40  | 3 45  | 3 50  | 3 55  | 4 0   | 4 5   | 4 10  |
| 66 | 3 35  | 3 40  | 3 45  | 3 50  | 3 55  | 4 0   | 4 5   | 4 10  | 4 15  | 4 20  | 4 25  | 4 30  | 4 35  | 4 40  | 4 45  | 4 50  |
| 67 | 4 10  | 4 15  | 4 20  | 4 25  | 4 30  | 4 35  | 4 40  | 4 45  | 4 50  | 4 55  | 5 0   | 5 5   | 6 0   | 6 5   | 7 0   | 7 5   |
| 68 | 4 46  | 4 51  | 4 56  | 5 0   | 5 5   | 6 0   | 6 5   | 7 0   | 7 5   | 8 0   | 8 5   | 9 0   | 9 5   | 10 0  | 10 5  | 11 0  |
| 69 | 5 22  | 5 27  | 5 32  | 5 37  | 5 42  | 5 47  | 5 52  | 5 57  | 6 0   | 6 5   | 7 0   | 7 5   | 8 0   | 8 5   | 9 0   | 9 5   |
| 70 | 5 58  | 6 3   | 6 8   | 6 13  | 6 18  | 6 23  | 6 28  | 6 33  | 6 38  | 6 43  | 6 48  | 6 53  | 6 58  | 7 3   | 7 8   | 7 13  |
| 71 | 6 34  | 6 39  | 6 44  | 6 49  | 6 54  | 6 59  | 7 4   | 7 9   | 7 14  | 7 19  | 7 24  | 7 29  | 7 34  | 7 39  | 7 44  | 7 49  |
| 72 | 7 10  | 7 15  | 7 20  | 7 25  | 7 30  | 7 35  | 7 40  | 7 45  | 7 50  | 7 55  | 8 0   | 8 5   | 9 0   | 9 5   | 10 0  | 10 5  |

Table VI Semidiurnal Motion of the Moon

| TIME | 12 HOUR TRAVEL |        |        |        |        |        |        |        |        |        |        |        |        |        | TIME  |        |
|------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
|      | 7° 25'         | 7° 26' | 7° 27' | 7° 28' | 7° 29' | 7° 30' | 7° 31' | 7° 32' | 7° 33' | 7° 34' | 7° 35' | 7° 36' | 7° 37' | 7° 38' |       | 7° 39' |
| 1    | 0 37           | 0 37   | 0 37   | 0 37   | 0 37   | 0 38   | 0 38   | 0 38   | 0 38   | 0 38   | 0 38   | 0 38   | 0 38   | 0 38   | 0 38  | 0 38   |
| 2    | 1 14           | 1 15   | 1 15   | 1 15   | 1 15   | 1 15   | 1 15   | 1 15   | 1 15   | 1 15   | 1 15   | 1 15   | 1 15   | 1 15   | 1 15  | 1 15   |
| 3    | 1 52           | 1 52   | 1 52   | 1 52   | 1 52   | 1 53   | 1 53   | 1 53   | 1 53   | 1 53   | 1 54   | 1 54   | 1 54   | 1 54   | 1 54  | 1 54   |
| 4    | 2 29           | 2 29   | 2 29   | 2 29   | 2 30   | 2 30   | 2 30   | 2 31   | 2 31   | 2 31   | 2 32   | 2 32   | 2 32   | 2 33   | 2 33  | 2 33   |
| 5    | 3 6            | 3 6    | 3 6    | 3 7    | 3 7    | 3 8    | 3 8    | 3 8    | 3 9    | 3 9    | 3 10   | 3 10   | 3 10   | 3 10   | 3 11  | 3 11   |
| 6    | 3 43           | 3 43   | 3 43   | 3 44   | 3 45   | 3 45   | 3 46   | 3 46   | 3 46   | 3 47   | 3 47   | 3 48   | 3 49   | 3 49   | 3 49  | 3 49   |
| 7    | 4 20           | 4 20   | 4 21   | 4 21   | 4 22   | 4 23   | 4 24   | 4 24   | 4 24   | 4 25   | 4 25   | 4 26   | 4 27   | 4 27   | 4 28  | 4 28   |
| 8    | 4 57           | 4 57   | 4 58   | 4 59   | 4 59   | 5 0    | 5 1    | 5 1    | 5 2    | 5 2    | 5 3    | 5 3    | 5 3    | 5 3    | 5 4   | 5 4    |
| 9    | 5 34           | 5 34   | 5 35   | 5 36   | 5 37   | 5 38   | 5 38   | 5 39   | 5 40   | 5 40   | 5 41   | 5 42   | 5 43   | 5 43   | 5 44  | 5 44   |
| 10   | 6 12           | 6 12   | 6 13   | 6 13   | 6 14   | 6 15   | 6 16   | 6 17   | 6 17   | 6 18   | 6 19   | 6 20   | 6 21   | 6 22   | 6 23  | 6 23   |
| 11   | 6 50           | 6 49   | 6 50   | 6 51   | 6 52   | 6 53   | 6 54   | 6 55   | 6 55   | 6 56   | 6 57   | 6 58   | 6 59   | 7 0    | 7 1   | 7 1    |
| 12   | 7 28           | 7 28   | 7 29   | 7 29   | 7 30   | 7 31   | 7 32   | 7 33   | 7 33   | 7 34   | 7 35   | 7 36   | 7 37   | 7 38   | 7 39  | 7 39   |
| 13   | 8 6            | 8 3    | 8 4    | 8 5    | 8 6    | 8 7    | 8 8    | 8 11   | 8 11   | 8 12   | 8 13   | 8 14   | 8 15   | 8 16   | 8 17  | 8 17   |
| 14   | 8 39           | 8 40   | 8 42   | 8 43   | 8 44   | 8 45   | 8 47   | 8 48   | 8 48   | 8 50   | 8 51   | 8 52   | 8 53   | 8 54   | 8 55  | 8 55   |
| 15   | 9 16           | 9 17   | 9 19   | 9 20   | 9 21   | 9 22   | 9 24   | 9 25   | 9 26   | 9 27   | 9 29   | 9 30   | 9 31   | 9 32   | 9 34  | 9 34   |
| 16   | 9 53           | 9 58   | 9 56   | 9 57   | 9 59   | 10 0   | 10 1   | 10 3   | 10 4   | 10 5   | 10 7   | 10 8   | 10 9   | 10 11  | 10 12 | 10 12  |
| 17   | 10 30          | 10 32  | 10 33  | 10 33  | 10 36  | 10 37  | 10 39  | 10 40  | 10 42  | 10 43  | 10 45  | 10 46  | 10 47  | 10 49  | 10 50 | 10 50  |
| 18   | 11 7           | 11 9   | 11 10  | 11 12  | 11 13  | 11 15  | 11 16  | 11 18  | 11 19  | 11 20  | 11 22  | 11 23  | 11 24  | 11 25  | 11 27 | 11 27  |
| 19   | 11 45          | 11 46  | 11 48  | 11 49  | 11 51  | 11 52  | 11 54  | 11 56  | 11 57  | 11 59  | 12 0   | 12 1   | 12 2   | 12 3   | 12 4  | 12 4   |
| 20   | 12 22          | 12 23  | 12 25  | 12 27  | 12 28  | 12 30  | 12 32  | 12 35  | 12 35  | 12 37  | 12 38  | 12 40  | 12 42  | 12 43  | 12 45 | 12 45  |
| 21   | 12 59          | 13 0   | 13 2   | 13 4   | 13 6   | 13 7   | 13 9   | 13 11  | 13 13  | 13 14  | 13 16  | 13 18  | 13 20  | 13 21  | 13 23 | 13 23  |
| 22   | 13 36          | 13 36  | 13 37  | 13 41  | 13 43  | 13 45  | 13 47  | 13 49  | 13 50  | 13 52  | 13 54  | 13 56  | 14 0   | 14 1   | 14 1  | 14 1   |
| 23   | 14 13          | 14 15  | 14 17  | 14 19  | 14 21  | 14 22  | 14 24  | 14 26  | 14 28  | 14 30  | 14 32  | 14 34  | 14 36  | 14 38  | 14 40 | 14 40  |
| 24   | 14 50          | 14 52  | 14 54  | 14 56  | 14 58  | 15 0   | 15 4   | 15 6   | 15 6   | 15 8   | 15 10  | 15 12  | 15 14  | 15 16  | 15 18 | 15 18  |
| 25   | 15 27          | 15 29  | 15 31  | 15 33  | 15 35  | 15 37  | 15 40  | 15 42  | 15 44  | 15 46  | 15 48  | 15 50  | 15 52  | 15 54  | 15 56 | 15 56  |
| 26   | 16 4           | 16 6   | 16 8   | 16 11  | 16 13  | 16 15  | 16 17  | 16 19  | 16 22  | 16 24  | 16 26  | 16 28  | 16 30  | 16 32  | 16 34 | 16 34  |
| 27   | 16 41          | 16 44  | 16 46  | 16 48  | 16 50  | 16 53  | 16 55  | 16 57  | 16 59  | 17 1   | 17 4   | 17 6   | 17 8   | 17 11  | 17 13 | 17 13  |
| 28   | 17 18          | 17 21  | 17 23  | 17 25  | 17 28  | 17 30  | 17 32  | 17 35  | 17 37  | 17 39  | 17 42  | 17 44  | 17 46  | 17 49  | 17 51 | 17 51  |
| 29   | 17 55          | 17 58  | 18 0   | 18 3   | 18 5   | 18 8   | 18 10  | 18 12  | 18 15  | 18 17  | 18 20  | 18 22  | 18 24  | 18 27  | 18 29 | 18 29  |
| 30   | 18 33          | 18 36  | 18 38  | 18 40  | 18 42  | 18 45  | 18 48  | 18 50  | 18 53  | 18 55  | 18 57  | 19 0   | 19 3   | 19 5   | 19 8  | 19 8   |
| 31   | 19 10          | 19 12  | 19 15  | 19 17  | 19 20  | 19 23  | 19 26  | 19 28  | 19 30  | 19 33  | 19 35  | 19 38  | 19 41  | 19 43  | 19 46 | 19 46  |
| 32   | 19 47          | 19 49  | 19 52  | 19 55  | 19 57  | 20 0   | 20 3   | 20 5   | 20 8   | 20 11  | 20 13  | 20 16  | 20 19  | 20 21  | 20 24 | 20 24  |
| 33   | 20 24          | 20 26  | 20 29  | 20 32  | 20 35  | 20 38  | 20 41  | 20 43  | 20 46  | 20 49  | 20 51  | 20 54  | 20 57  | 21 0   | 21 2  | 21 2   |
| 34   | 21 1           | 21 4   | 21 7   | 21 9   | 21 12  | 21 15  | 21 18  | 21 21  | 21 23  | 21 26  | 21 29  | 21 32  | 21 35  | 21 38  | 21 41 | 21 41  |
| 35   | 21 38          | 21 41  | 21 44  | 21 47  | 21 50  | 21 53  | 21 55  | 22 1   | 22 4   | 22 7   | 22 10  | 22 13  | 22 16  | 22 19  | 22 22 | 22 22  |
| 36   | 22 15          | 22 18  | 22 21  | 22 24  | 22 27  | 22 30  | 22 33  | 22 36  | 22 39  | 22 42  | 22 45  | 22 48  | 22 51  | 22 54  | 22 57 | 22 57  |
| 37   | 22 52          | 22 55  | 22 58  | 23 1   | 23 4   | 23 8   | 23 11  | 23 14  | 23 17  | 23 20  | 23 23  | 23 26  | 23 29  | 23 32  | 23 35 | 23 35  |
| 38   | 23 29          | 23 32  | 23 35  | 23 39  | 23 42  | 23 45  | 23 48  | 23 51  | 23 54  | 23 58  | 24 1   | 24 4   | 24 7   | 24 10  | 24 13 | 24 13  |
| 39   | 24 6           | 24 9   | 24 12  | 24 16  | 24 19  | 24 23  | 24 26  | 24 29  | 24 32  | 24 35  | 24 39  | 24 42  | 24 45  | 24 49  | 24 52 | 24 52  |
| 40   | 24 43          | 24 47  | 24 50  | 24 53  | 24 57  | 25 0   | 25 3   | 25 7   | 25 10  | 25 13  | 25 17  | 25 20  | 25 23  | 25 27  | 25 30 | 25 30  |

|    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| 41 | 23 20 | 25 24 | 26 27 | 28 31 | 28 34 | 28 38 | 28 41 | 28 44 | 28 48 | 28 51 | 28 55 | 28 58 | 26 1  | 26 5  | 26 8  | 41 |
| 42 | 26 57 | 26 1  | 26 4  | 26 8  | 26 11 | 26 15 | 26 19 | 26 22 | 26 26 | 26 29 | 26 33 | 26 36 | 26 39 | 26 43 | 26 46 | 43 |
| 43 | 26 38 | 26 38 | 26 42 | 26 45 | 26 49 | 26 53 | 26 56 | 27 0  | 27 3  | 27 7  | 27 10 | 27 14 | 27 18 | 27 21 | 27 25 | 43 |
| 44 | 27 12 | 27 15 | 27 19 | 27 23 | 27 26 | 27 30 | 27 34 | 27 37 | 27 41 | 27 45 | 27 48 | 27 52 | 27 56 | 27 59 | 28 3  | 44 |
| 45 | 27 49 | 27 53 | 27 56 | 28 0  | 28 4  | 28 8  | 28 11 | 28 15 | 28 19 | 28 23 | 28 26 | 28 30 | 28 34 | 28 38 | 28 41 | 45 |
| 46 | 28 26 | 28 30 | 28 34 | 28 37 | 28 41 | 28 45 | 28 49 | 28 53 | 28 57 | 29 0  | 29 4  | 29 8  | 29 12 | 29 16 | 29 20 | 46 |
| 47 | 29 3  | 29 7  | 29 11 | 29 15 | 29 19 | 29 22 | 29 26 | 29 30 | 29 34 | 29 38 | 29 42 | 29 46 | 29 50 | 29 54 | 29 58 | 47 |
| 48 | 29 40 | 29 44 | 29 48 | 29 52 | 29 55 | 30 0  | 30 4  | 30 8  | 30 12 | 30 16 | 30 20 | 30 24 | 30 28 | 30 32 | 30 36 | 48 |
| 49 | 30 17 | 30 21 | 30 25 | 30 29 | 30 33 | 30 36 | 30 40 | 30 44 | 30 48 | 30 52 | 30 56 | 31 0  | 31 4  | 31 8  | 31 12 | 49 |
| 50 | 30 54 | 30 58 | 31 2  | 31 7  | 31 11 | 31 15 | 31 19 | 31 23 | 31 27 | 31 31 | 31 35 | 31 39 | 31 43 | 31 47 | 31 51 | 50 |
| 51 | 31 31 | 31 35 | 31 40 | 31 44 | 31 48 | 31 53 | 31 57 | 32 0  | 32 4  | 32 8  | 32 12 | 32 16 | 32 20 | 32 24 | 32 28 | 51 |
| 52 | 32 8  | 32 13 | 32 17 | 32 21 | 32 26 | 32 30 | 32 34 | 32 39 | 32 43 | 32 47 | 32 51 | 32 56 | 33 0  | 33 4  | 33 8  | 52 |
| 53 | 32 45 | 32 50 | 32 54 | 32 59 | 33 3  | 33 8  | 33 12 | 33 16 | 33 21 | 33 25 | 33 30 | 33 34 | 33 38 | 33 43 | 33 47 | 53 |
| 54 | 33 23 | 33 27 | 33 31 | 33 36 | 33 40 | 33 45 | 33 49 | 33 54 | 33 58 | 34 3  | 34 8  | 34 12 | 34 16 | 34 21 | 34 25 | 54 |
| 55 | 34 0  | 34 4  | 34 9  | 34 13 | 34 18 | 34 23 | 34 27 | 34 32 | 34 36 | 34 41 | 34 45 | 34 50 | 34 55 | 34 59 | 35 4  | 55 |
| 56 | 34 37 | 34 41 | 34 46 | 34 51 | 34 55 | 35 0  | 35 5  | 35 9  | 35 14 | 35 19 | 35 23 | 35 28 | 35 33 | 35 37 | 35 42 | 56 |
| 57 | 35 14 | 35 18 | 35 23 | 35 28 | 35 33 | 35 38 | 35 42 | 35 47 | 35 52 | 35 56 | 36 1  | 36 6  | 36 11 | 36 16 | 36 20 | 57 |
| 58 | 36 51 | 36 56 | 36 0  | 36 5  | 36 10 | 36 15 | 36 20 | 36 25 | 36 30 | 36 34 | 36 39 | 36 44 | 36 49 | 36 54 | 36 59 | 58 |
| 59 | 36 28 | 36 33 | 36 38 | 36 43 | 36 48 | 36 53 | 36 57 | 37 2  | 37 7  | 37 12 | 37 17 | 37 22 | 37 27 | 37 32 | 37 37 | 59 |
| 60 | 37 5  | 37 10 | 37 15 | 37 20 | 37 25 | 37 30 | 37 35 | 37 40 | 37 45 | 37 50 | 37 55 | 38 0  | 38 5  | 38 10 | 38 15 | 60 |
| 61 | 37 5  | 37 10 | 37 15 | 37 20 | 37 25 | 37 30 | 37 35 | 37 40 | 37 45 | 37 50 | 37 55 | 38 0  | 38 5  | 38 10 | 38 15 | 61 |
| 62 | 1 14  | 1 18  | 1 22  | 1 26  | 1 30  | 1 34  | 1 38  | 1 42  | 1 46  | 1 50  | 1 54  | 1 58  | 2 0   | 2 4   | 2 8   | 62 |
| 63 | 1 51  | 1 55  | 1 59  | 2 3   | 2 7   | 2 11  | 2 15  | 2 19  | 2 23  | 2 27  | 2 31  | 2 35  | 2 39  | 2 43  | 2 47  | 63 |
| 64 | 2 26  | 2 30  | 2 34  | 2 38  | 2 42  | 2 46  | 2 50  | 2 54  | 2 58  | 3 0   | 3 4   | 3 8   | 3 12  | 3 16  | 3 20  | 64 |
| 65 | 3 5   | 3 9   | 3 13  | 3 17  | 3 21  | 3 25  | 3 29  | 3 33  | 3 37  | 3 41  | 3 45  | 3 49  | 3 53  | 3 57  | 4 0   | 65 |
| 66 | 3 42  | 3 46  | 3 50  | 3 54  | 3 58  | 4 0   | 4 4   | 4 8   | 4 12  | 4 16  | 4 20  | 4 24  | 4 28  | 4 32  | 4 36  | 66 |
| 67 | 4 19  | 4 23  | 4 27  | 4 31  | 4 35  | 4 39  | 4 43  | 4 47  | 4 51  | 4 55  | 4 59  | 5 0   | 5 4   | 5 8   | 5 12  | 67 |
| 68 | 4 56  | 4 60  | 4 64  | 4 68  | 4 72  | 4 76  | 4 80  | 4 84  | 4 88  | 4 92  | 4 96  | 5 0   | 5 4   | 5 8   | 5 12  | 68 |
| 69 | 5 33  | 5 37  | 5 41  | 5 45  | 5 49  | 5 53  | 5 57  | 6 0   | 6 4   | 6 8   | 6 12  | 6 16  | 6 20  | 6 24  | 6 28  | 69 |
| 70 | 6 10  | 6 14  | 6 18  | 6 22  | 6 26  | 6 30  | 6 34  | 6 38  | 6 42  | 6 46  | 6 50  | 6 54  | 6 58  | 7 0   | 7 4   | 70 |
| 71 | 6 47  | 6 51  | 6 55  | 6 59  | 7 0   | 7 4   | 7 8   | 7 12  | 7 16  | 7 20  | 7 24  | 7 28  | 7 32  | 7 36  | 7 40  | 71 |
| 72 | 7 25  | 7 29  | 7 33  | 7 37  | 7 41  | 7 45  | 7 49  | 7 53  | 7 57  | 8 0   | 8 4   | 8 8   | 8 12  | 8 16  | 8 20  | 72 |

Table VII Diurnal Motion of the Planets

| TIME | 24 HOUR TRAVEL |       |       |       |       |       |       |       |       |        |        |        |        |        |        |
|------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
|      | 0° 1'          | 0° 2' | 0° 3' | 0° 4' | 0° 5' | 0° 6' | 0° 7' | 0° 8' | 0° 9' | 0° 10' | 0° 11' | 0° 12' | 0° 13' | 0° 14' | 0° 15' |
| 1    | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 2    | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 3    | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 4    | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 5    | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 6    | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 7    | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 8    | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 9    | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 10   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 11   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 12   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 13   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 14   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 15   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 16   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 17   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 18   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 19   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 20   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 21   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 22   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 23   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 24   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 25   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 26   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 27   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 28   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 29   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 30   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 31   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 32   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 33   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 34   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 35   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 36   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 37   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 38   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 39   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |
| 40   | 0              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0      | 0      | 0      | 0      | 0      | 0      |

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|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| 41 | 0 37 | 5 29 | 0 31 | 0 32 | 0 34 | 0 35 | 0 36 | 0 38 | 0 41 | 5 43 | 0 44 | 0 45 | 0 48 | 0 50 | 0 51 | 41 |
| 42 | 0 26 | 5 30 | 0 32 | 0 33 | 0 35 | 0 36 | 0 37 | 0 38 | 0 40 | 5 44 | 0 45 | 0 46 | 0 49 | 0 51 | 0 52 | 42 |
| 43 | 0 29 | 5 31 | 0 33 | 0 34 | 0 36 | 0 37 | 0 38 | 0 40 | 0 41 | 5 45 | 0 46 | 0 47 | 0 50 | 0 52 | 0 53 | 43 |
| 44 | 0 30 | 5 32 | 0 34 | 0 35 | 0 37 | 0 38 | 0 39 | 0 41 | 0 42 | 5 46 | 0 47 | 0 48 | 0 51 | 0 53 | 0 54 | 44 |
| 45 | 0 33 | 5 33 | 0 35 | 0 36 | 0 38 | 0 39 | 0 40 | 0 42 | 0 43 | 5 47 | 0 48 | 0 49 | 0 52 | 0 54 | 0 55 | 45 |
| 46 | 0 31 | 5 34 | 0 35 | 0 36 | 0 38 | 0 39 | 0 40 | 0 42 | 0 43 | 5 48 | 0 49 | 0 50 | 0 53 | 0 55 | 0 56 | 46 |
| 47 | 0 31 | 5 35 | 0 35 | 0 36 | 0 38 | 0 39 | 0 40 | 0 42 | 0 43 | 5 49 | 0 50 | 0 51 | 0 54 | 0 56 | 0 57 | 47 |
| 48 | 0 32 | 5 36 | 0 36 | 0 37 | 0 39 | 0 40 | 0 41 | 0 43 | 0 44 | 5 50 | 0 51 | 0 52 | 0 55 | 0 57 | 0 58 | 48 |
| 49 | 0 33 | 5 37 | 0 36 | 0 37 | 0 39 | 0 40 | 0 41 | 0 43 | 0 44 | 5 51 | 0 52 | 0 53 | 0 56 | 0 58 | 0 59 | 49 |
| 50 | 0 33 | 5 38 | 0 36 | 0 37 | 0 39 | 0 40 | 0 41 | 0 43 | 0 44 | 5 52 | 0 53 | 0 54 | 0 57 | 0 59 | 0 60 | 50 |
| 51 | 0 34 | 5 39 | 0 36 | 0 37 | 0 39 | 0 40 | 0 41 | 0 43 | 0 44 | 5 53 | 0 54 | 0 55 | 0 58 | 0 60 | 0 61 | 51 |
| 52 | 0 33 | 5 40 | 0 37 | 0 38 | 0 40 | 0 41 | 0 42 | 0 44 | 0 45 | 5 54 | 0 55 | 0 56 | 0 59 | 0 61 | 0 62 | 52 |
| 53 | 0 33 | 5 41 | 0 37 | 0 38 | 0 40 | 0 41 | 0 42 | 0 44 | 0 45 | 5 55 | 0 56 | 0 57 | 0 60 | 0 62 | 0 63 | 53 |
| 54 | 0 36 | 5 42 | 0 41 | 0 42 | 0 44 | 0 45 | 0 46 | 0 48 | 0 49 | 5 56 | 0 57 | 0 58 | 0 61 | 0 63 | 0 64 | 54 |
| 55 | 0 37 | 5 43 | 0 41 | 0 42 | 0 44 | 0 45 | 0 46 | 0 48 | 0 49 | 5 57 | 0 58 | 0 59 | 0 62 | 0 64 | 0 65 | 55 |
| 56 | 0 37 | 5 44 | 0 42 | 0 43 | 0 45 | 0 46 | 0 47 | 0 49 | 0 50 | 5 58 | 0 59 | 0 60 | 0 63 | 0 65 | 0 66 | 56 |
| 57 | 0 38 | 5 45 | 0 42 | 0 43 | 0 45 | 0 46 | 0 47 | 0 49 | 0 50 | 5 59 | 0 60 | 0 61 | 0 64 | 0 66 | 0 67 | 57 |
| 58 | 0 39 | 5 46 | 0 44 | 0 45 | 0 47 | 0 48 | 0 49 | 0 51 | 0 52 | 5 60 | 0 61 | 0 62 | 0 65 | 0 67 | 0 68 | 58 |
| 59 | 0 39 | 5 47 | 0 44 | 0 45 | 0 47 | 0 48 | 0 49 | 0 51 | 0 52 | 5 61 | 0 62 | 0 63 | 0 66 | 0 68 | 0 69 | 59 |
| 60 | 0 40 | 5 48 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 62 | 0 63 | 0 64 | 0 67 | 0 69 | 0 70 | 60 |
|    | 0 40 | 5 49 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 63 | 0 64 | 0 65 | 0 68 | 0 70 | 0 71 |    |
|    | 0 40 | 5 50 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 64 | 0 65 | 0 66 | 0 69 | 0 71 | 0 72 |    |
|    | 0 40 | 5 51 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 65 | 0 66 | 0 67 | 0 70 | 0 72 | 0 73 |    |
|    | 0 40 | 5 52 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 66 | 0 67 | 0 68 | 0 71 | 0 73 | 0 74 |    |
|    | 0 40 | 5 53 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 67 | 0 68 | 0 69 | 0 72 | 0 74 | 0 75 |    |
|    | 0 40 | 5 54 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 68 | 0 69 | 0 70 | 0 73 | 0 75 | 0 76 |    |
|    | 0 40 | 5 55 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 69 | 0 70 | 0 71 | 0 74 | 0 76 | 0 77 |    |
|    | 0 40 | 5 56 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 70 | 0 71 | 0 72 | 0 75 | 0 77 | 0 78 |    |
|    | 0 40 | 5 57 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 71 | 0 72 | 0 73 | 0 76 | 0 78 | 0 79 |    |
|    | 0 40 | 5 58 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 72 | 0 73 | 0 74 | 0 77 | 0 79 | 0 80 |    |
|    | 0 40 | 5 59 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 73 | 0 74 | 0 75 | 0 78 | 0 80 | 0 81 |    |
|    | 0 40 | 5 60 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 74 | 0 75 | 0 76 | 0 79 | 0 81 | 0 82 |    |
|    | 0 40 | 5 61 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 75 | 0 76 | 0 77 | 0 80 | 0 82 | 0 83 |    |
|    | 0 40 | 5 62 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 76 | 0 77 | 0 78 | 0 81 | 0 83 | 0 84 |    |
|    | 0 40 | 5 63 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 77 | 0 78 | 0 79 | 0 82 | 0 84 | 0 85 |    |
|    | 0 40 | 5 64 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 78 | 0 79 | 0 80 | 0 83 | 0 85 | 0 86 |    |
|    | 0 40 | 5 65 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 79 | 0 80 | 0 81 | 0 84 | 0 86 | 0 87 |    |
|    | 0 40 | 5 66 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 80 | 0 81 | 0 82 | 0 85 | 0 87 | 0 88 |    |
|    | 0 40 | 5 67 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 81 | 0 82 | 0 83 | 0 86 | 0 88 | 0 89 |    |
|    | 0 40 | 5 68 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 82 | 0 83 | 0 84 | 0 87 | 0 89 | 0 90 |    |
|    | 0 40 | 5 69 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 83 | 0 84 | 0 85 | 0 88 | 0 90 | 0 91 |    |
|    | 0 40 | 5 70 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 84 | 0 85 | 0 86 | 0 89 | 0 91 | 0 92 |    |
|    | 0 40 | 5 71 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 85 | 0 86 | 0 87 | 0 90 | 0 92 | 0 93 |    |
|    | 0 40 | 5 72 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 86 | 0 87 | 0 88 | 0 91 | 0 93 | 0 94 |    |
|    | 0 40 | 5 73 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 87 | 0 88 | 0 89 | 0 92 | 0 94 | 0 95 |    |
|    | 0 40 | 5 74 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 88 | 0 89 | 0 90 | 0 93 | 0 95 | 0 96 |    |
|    | 0 40 | 5 75 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 89 | 0 90 | 0 91 | 0 94 | 0 96 | 0 97 |    |
|    | 0 40 | 5 76 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 90 | 0 91 | 0 92 | 0 95 | 0 97 | 0 98 |    |
|    | 0 40 | 5 77 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 91 | 0 92 | 0 93 | 0 96 | 0 98 | 0 99 |    |
|    | 0 40 | 5 78 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 92 | 0 93 | 0 94 | 0 97 | 0 99 | 1 00 |    |
|    | 0 40 | 5 79 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 93 | 0 94 | 0 95 | 0 98 | 1 00 | 1 01 |    |
|    | 0 40 | 5 80 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 94 | 0 95 | 0 96 | 0 99 | 1 01 | 1 02 |    |
|    | 0 40 | 5 81 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 95 | 0 96 | 0 97 | 1 00 | 1 02 | 1 03 |    |
|    | 0 40 | 5 82 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 96 | 0 97 | 0 98 | 1 01 | 1 03 | 1 04 |    |
|    | 0 40 | 5 83 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 97 | 0 98 | 0 99 | 1 02 | 1 04 | 1 05 |    |
|    | 0 40 | 5 84 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 98 | 0 99 | 1 00 | 1 03 | 1 05 | 1 06 |    |
|    | 0 40 | 5 85 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 5 99 | 1 00 | 1 01 | 1 04 | 1 06 | 1 07 |    |
|    | 0 40 | 5 86 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 00 | 1 01 | 1 02 | 1 05 | 1 07 | 1 08 |    |
|    | 0 40 | 5 87 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 01 | 1 02 | 1 03 | 1 06 | 1 08 | 1 09 |    |
|    | 0 40 | 5 88 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 02 | 1 03 | 1 04 | 1 07 | 1 09 | 1 10 |    |
|    | 0 40 | 5 89 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 03 | 1 04 | 1 05 | 1 08 | 1 10 | 1 11 |    |
|    | 0 40 | 5 90 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 04 | 1 05 | 1 06 | 1 09 | 1 11 | 1 12 |    |
|    | 0 40 | 5 91 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 05 | 1 06 | 1 07 | 1 10 | 1 12 | 1 13 |    |
|    | 0 40 | 5 92 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 06 | 1 07 | 1 08 | 1 11 | 1 13 | 1 14 |    |
|    | 0 40 | 5 93 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 07 | 1 08 | 1 09 | 1 12 | 1 14 | 1 15 |    |
|    | 0 40 | 5 94 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 08 | 1 09 | 1 10 | 1 13 | 1 15 | 1 16 |    |
|    | 0 40 | 5 95 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 09 | 1 10 | 1 11 | 1 14 | 1 16 | 1 17 |    |
|    | 0 40 | 5 96 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 10 | 1 11 | 1 12 | 1 15 | 1 17 | 1 18 |    |
|    | 0 40 | 5 97 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 11 | 1 12 | 1 13 | 1 16 | 1 18 | 1 19 |    |
|    | 0 40 | 5 98 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 12 | 1 13 | 1 14 | 1 17 | 1 19 | 1 20 |    |
|    | 0 40 | 5 99 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 13 | 1 14 | 1 15 | 1 18 | 1 20 | 1 21 |    |
|    | 0 40 | 6 00 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 14 | 1 15 | 1 16 | 1 19 | 1 21 | 1 22 |    |
|    | 0 40 | 6 01 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 15 | 1 16 | 1 17 | 1 20 | 1 22 | 1 23 |    |
|    | 0 40 | 6 02 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 16 | 1 17 | 1 18 | 1 21 | 1 23 | 1 24 |    |
|    | 0 40 | 6 03 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 17 | 1 18 | 1 19 | 1 22 | 1 24 | 1 25 |    |
|    | 0 40 | 6 04 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 18 | 1 19 | 1 20 | 1 23 | 1 25 | 1 26 |    |
|    | 0 40 | 6 05 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 19 | 1 20 | 1 21 | 1 24 | 1 26 | 1 27 |    |
|    | 0 40 | 6 06 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 20 | 1 21 | 1 22 | 1 25 | 1 27 | 1 28 |    |
|    | 0 40 | 6 07 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 21 | 1 22 | 1 23 | 1 26 | 1 28 | 1 29 |    |
|    | 0 40 | 6 08 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 22 | 1 23 | 1 24 | 1 27 | 1 29 | 1 30 |    |
|    | 0 40 | 6 09 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 23 | 1 24 | 1 25 | 1 28 | 1 30 | 1 31 |    |
|    | 0 40 | 6 10 | 0 45 | 0 46 | 0 48 | 0 49 | 0 50 | 0 52 | 0 53 | 6 24 | 1 25 | 1 26 | 1 29 | 1 31 | 1 32 |    |
|    | 0 40 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |





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|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 41  | 0 53 | 0 55 | 0 56 | 0 58 | 1 0  | 1 1  | 1 2  | 1 3  | 1 5  | 1 7  | 1 8  | 1 10 | 1 12 | 1 13 | 1 18 | 1 19 | 1 41 |
| 42  | 0 54 | 0 56 | 0 57 | 1 0  | 1 1  | 1 2  | 1 3  | 1 5  | 1 7  | 1 8  | 1 10 | 1 12 | 1 13 | 1 18 | 1 19 | 1 42 |      |
| 43  | 0 55 | 0 57 | 0 58 | 1 1  | 1 2  | 1 3  | 1 4  | 1 6  | 1 8  | 1 10 | 1 12 | 1 13 | 1 18 | 1 19 | 1 21 | 1 24 | 43   |
| 44  | 0 56 | 0 58 | 1 0  | 1 1  | 1 2  | 1 3  | 1 4  | 1 6  | 1 8  | 1 10 | 1 12 | 1 13 | 1 18 | 1 19 | 1 21 | 1 24 | 44   |
| 45  | 0 57 | 0 59 | 1 0  | 1 1  | 1 2  | 1 3  | 1 4  | 1 6  | 1 8  | 1 10 | 1 12 | 1 13 | 1 18 | 1 19 | 1 21 | 1 24 | 45   |
| 46  | 0 58 | 1 0  | 1 1  | 1 2  | 1 3  | 1 4  | 1 6  | 1 8  | 1 10 | 1 12 | 1 13 | 1 18 | 1 19 | 1 21 | 1 24 | 1 26 | 46   |
| 47  | 1 0  | 1 1  | 1 2  | 1 3  | 1 4  | 1 6  | 1 8  | 1 10 | 1 12 | 1 13 | 1 18 | 1 19 | 1 21 | 1 24 | 1 26 | 1 27 | 47   |
| 48  | 1 1  | 1 2  | 1 3  | 1 4  | 1 6  | 1 8  | 1 10 | 1 12 | 1 13 | 1 18 | 1 19 | 1 21 | 1 24 | 1 26 | 1 27 | 1 30 | 48   |
| 49  | 1 2  | 1 3  | 1 4  | 1 6  | 1 8  | 1 10 | 1 12 | 1 13 | 1 18 | 1 19 | 1 21 | 1 24 | 1 26 | 1 27 | 1 30 | 1 32 | 49   |
| 50  | 1 3  | 1 4  | 1 6  | 1 8  | 1 10 | 1 12 | 1 13 | 1 18 | 1 19 | 1 21 | 1 24 | 1 26 | 1 27 | 1 30 | 1 32 | 1 34 | 50   |
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| 52  | 1 5  | 1 6  | 1 8  | 1 10 | 1 12 | 1 13 | 1 18 | 1 19 | 1 21 | 1 24 | 1 26 | 1 27 | 1 30 | 1 32 | 1 34 | 1 36 | 52   |
| 53  | 1 6  | 1 7  | 1 9  | 1 11 | 1 14 | 1 16 | 1 19 | 1 21 | 1 24 | 1 26 | 1 27 | 1 30 | 1 32 | 1 34 | 1 36 | 1 38 | 53   |
| 54  | 1 7  | 1 8  | 1 10 | 1 12 | 1 14 | 1 16 | 1 19 | 1 21 | 1 24 | 1 26 | 1 27 | 1 30 | 1 32 | 1 34 | 1 36 | 1 38 | 54   |
| 55  | 1 8  | 1 10 | 1 12 | 1 14 | 1 16 | 1 19 | 1 21 | 1 24 | 1 26 | 1 27 | 1 30 | 1 32 | 1 34 | 1 36 | 1 38 | 1 40 | 55   |
| 56  | 1 9  | 1 12 | 1 15 | 1 17 | 1 19 | 1 22 | 1 24 | 1 26 | 1 29 | 1 31 | 1 33 | 1 36 | 1 38 | 1 40 | 1 43 | 1 45 | 56   |
| 57  | 1 10 | 1 14 | 1 17 | 1 20 | 1 23 | 1 26 | 1 29 | 1 31 | 1 33 | 1 35 | 1 37 | 1 40 | 1 42 | 1 44 | 1 46 | 1 48 | 57   |
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| 60  | 1 13 | 1 17 | 1 20 | 1 23 | 1 26 | 1 29 | 1 31 | 1 33 | 1 35 | 1 37 | 1 40 | 1 42 | 1 44 | 1 46 | 1 48 | 1 50 | 60   |
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| 63  | 1 16 | 1 20 | 1 23 | 1 26 | 1 29 | 1 31 | 1 33 | 1 35 | 1 37 | 1 40 | 1 42 | 1 44 | 1 46 | 1 48 | 1 50 | 1 52 |      |
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| 66  | 1 19 | 1 23 | 1 26 | 1 29 | 1 31 | 1 33 | 1 35 | 1 37 | 1 40 | 1 42 | 1 44 | 1 46 | 1 48 | 1 50 | 1 52 | 1 54 |      |
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| 69  | 1 22 | 1 26 | 1 29 | 1 31 | 1 33 | 1 35 | 1 37 | 1 40 | 1 42 | 1 44 | 1 46 | 1 48 | 1 50 | 1 52 | 1 54 | 1 56 |      |
| 70  | 1 23 | 1 27 | 1 30 | 1 33 | 1 35 | 1 37 | 1 40 | 1 42 | 1 44 | 1 46 | 1 48 | 1 50 | 1 52 | 1 54 | 1 56 | 1 58 |      |
| 71  | 1 24 | 1 28 | 1 31 | 1 33 | 1 35 | 1 37 | 1 40 | 1 42 | 1 44 | 1 46 | 1 48 | 1 50 | 1 52 | 1 54 | 1 56 | 1 58 |      |
| 72  | 1 25 | 1 29 | 1 32 | 1 34 | 1 36 | 1 38 | 1 40 | 1 42 | 1 44 | 1 46 | 1 48 | 1 50 | 1 52 | 1 54 | 1 56 | 1 58 |      |
| 73  | 1 26 | 1 30 | 1 33 | 1 35 | 1 37 | 1 39 | 1 41 | 1 43 | 1 45 | 1 47 | 1 49 | 1 51 | 1 53 | 1 55 | 1 57 | 1 59 |      |
| 74  | 1 27 | 1 31 | 1 34 | 1 36 | 1 38 | 1 40 | 1 42 | 1 44 | 1 46 | 1 48 | 1 50 | 1 52 | 1 54 | 1 56 | 1 58 | 1 60 |      |
| 75  | 1 28 | 1 32 | 1 35 | 1 37 | 1 39 | 1 41 | 1 43 | 1 45 | 1 47 | 1 49 | 1 51 | 1 53 | 1 55 | 1 57 | 1 59 | 1 61 |      |
| 76  | 1 29 | 1 33 | 1 36 | 1 38 | 1 40 | 1 42 | 1 44 | 1 46 | 1 48 | 1 50 | 1 52 | 1 54 | 1 56 | 1 58 | 1 60 | 1 62 |      |
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| 81  | 1 34 | 1 38 | 1 41 | 1 43 | 1 45 | 1 47 | 1 49 | 1 51 | 1 53 | 1 55 | 1 57 | 1 59 | 1 61 | 1 63 | 1 65 | 1 67 |      |
| 82  | 1 35 | 1 39 | 1 42 | 1 44 | 1 46 | 1 48 | 1 50 | 1 52 | 1 54 | 1 56 | 1 58 | 1 60 | 1 62 | 1 64 | 1 66 | 1 68 |      |
| 83  | 1 36 | 1 40 | 1 43 | 1 45 | 1 47 | 1 49 | 1 51 | 1 53 | 1 55 | 1 57 | 1 59 | 1 61 | 1 63 | 1 65 | 1 67 | 1 69 |      |
| 84  | 1 37 | 1 41 | 1 44 | 1 46 | 1 48 | 1 50 | 1 52 | 1 54 | 1 56 | 1 58 | 1 60 | 1 62 | 1 64 | 1 66 | 1 68 | 1 70 |      |
| 85  | 1 38 | 1 42 | 1 45 | 1 47 | 1 49 | 1 51 | 1 53 | 1 55 | 1 57 | 1 59 | 1 61 | 1 63 | 1 65 | 1 67 | 1 69 | 1 71 |      |
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| 87  | 1 40 | 1 44 | 1 47 | 1 49 | 1 51 | 1 53 | 1 55 | 1 57 | 1 59 | 1 61 | 1 63 | 1 65 | 1 67 | 1 69 | 1 71 | 1 73 |      |
| 88  | 1 41 | 1 45 | 1 48 | 1 50 | 1 52 | 1 54 | 1 56 | 1 58 | 1 60 | 1 62 | 1 64 | 1 66 | 1 68 | 1 70 | 1 72 | 1 74 |      |
| 89  | 1 42 | 1 46 | 1 49 | 1 51 | 1 53 | 1 55 | 1 57 | 1 59 | 1 61 | 1 63 | 1 65 | 1 67 | 1 69 | 1 71 | 1 73 | 1 75 |      |
| 90  | 1 43 | 1 47 | 1 50 | 1 52 | 1 54 | 1 56 | 1 58 | 1 60 | 1 62 | 1 64 | 1 66 | 1 68 | 1 70 | 1 72 | 1 74 | 1 76 |      |
| 91  | 1 44 | 1 48 | 1 51 | 1 53 | 1 55 | 1 57 | 1 59 | 1 61 | 1 63 | 1 65 | 1 67 | 1 69 | 1 71 | 1 73 | 1 75 | 1 77 |      |
| 92  | 1 45 | 1 49 | 1 52 | 1 54 | 1 56 | 1 58 | 1 60 | 1 62 | 1 64 | 1 66 | 1 68 | 1 70 | 1 72 | 1 74 | 1 76 | 1 78 |      |
| 93  | 1 46 | 1 50 | 1 53 | 1 55 | 1 57 | 1 59 | 1 61 | 1 63 | 1 65 | 1 67 | 1 69 | 1 71 | 1 73 | 1 75 | 1 77 | 1 79 |      |
| 94  | 1 47 | 1 51 | 1 54 | 1 56 | 1 58 | 1 60 | 1 62 | 1 64 | 1 66 | 1 68 | 1 70 | 1 72 | 1 74 | 1 76 | 1 78 | 1 80 |      |
| 95  | 1 48 | 1 52 | 1 55 | 1 57 | 1 59 | 1 61 | 1 63 | 1 65 | 1 67 | 1 69 | 1 71 | 1 73 | 1 75 | 1 77 | 1 79 | 1 81 |      |
| 96  | 1 49 | 1 53 | 1 56 | 1 58 | 1 60 | 1 62 | 1 64 | 1 66 | 1 68 | 1 70 | 1 72 | 1 74 | 1 76 | 1 78 | 1 80 | 1 82 |      |
| 97  | 1 50 | 1 54 | 1 57 | 1 59 | 1 61 | 1 63 | 1 65 | 1 67 | 1 69 | 1 71 | 1 73 | 1 75 | 1 77 | 1 79 | 1 81 | 1 83 |      |
| 98  | 1 51 | 1 55 | 1 58 | 1 60 | 1 62 | 1 64 | 1 66 | 1 68 | 1 70 | 1 72 | 1 74 | 1 76 | 1 78 | 1 80 | 1 82 | 1 84 |      |
| 99  | 1 52 | 1 56 | 1 59 | 1 61 | 1 63 | 1 65 | 1 67 | 1 69 | 1 71 | 1 73 | 1 75 | 1 77 | 1 79 | 1 81 | 1 83 | 1 85 |      |
| 100 | 1 53 | 1 57 | 1 60 | 1 62 | 1 64 | 1 66 | 1 68 | 1 70 | 1 72 | 1 74 | 1 76 | 1 78 | 1 80 | 1 82 | 1 84 | 1 86 |      |
| 101 | 1 54 | 1 58 | 1 61 | 1 63 | 1 65 | 1 67 | 1 69 | 1 71 | 1 73 | 1 75 | 1 77 | 1 79 | 1 81 | 1 83 | 1 85 | 1 87 |      |
| 102 | 1 55 | 1 59 | 1 62 | 1 64 | 1 66 | 1 68 | 1 70 | 1 72 | 1 74 | 1 76 | 1 78 | 1 80 | 1 82 | 1 84 | 1 86 | 1 88 |      |
| 103 | 1 56 | 1 60 | 1 63 | 1 65 | 1 67 | 1 69 | 1 71 | 1 73 | 1 75 | 1 77 | 1 79 | 1 81 | 1 83 | 1 85 | 1 87 | 1 89 |      |
| 104 | 1 57 | 1 61 | 1 64 | 1 66 | 1 68 | 1 70 | 1 72 | 1 74 | 1 76 | 1 78 | 1 80 | 1 82 | 1 84 | 1 86 | 1 88 | 1 90 |      |
| 105 | 1 58 | 1 62 | 1 65 | 1 67 | 1 69 | 1 71 | 1 73 | 1 75 | 1 77 | 1 79 | 1 81 | 1 83 | 1 85 | 1 87 | 1 89 | 1 91 |      |
| 106 | 1 59 | 1 63 | 1 66 | 1 68 | 1 70 | 1 72 | 1 74 | 1 76 | 1 78 | 1 80 | 1 82 | 1 84 | 1 86 | 1 88 | 1 90 | 1 92 |      |
| 107 | 1 60 | 1 64 | 1 67 | 1 69 | 1 71 | 1 73 | 1 75 | 1 77 | 1 79 | 1 81 | 1 83 | 1 85 | 1 87 | 1 89 | 1 91 | 1 93 |      |
| 108 | 1 61 | 1 65 | 1 68 | 1 70 | 1 72 | 1 74 | 1 76 | 1 78 | 1 80 | 1 82 | 1 84 | 1 86 | 1 88 | 1 90 | 1 92 | 1 94 |      |
| 109 | 1 62 | 1 66 | 1 69 | 1 71 | 1 73 | 1 75 | 1 77 | 1 79 | 1 81 | 1 83 | 1 85 | 1 87 | 1 89 | 1 91 | 1 93 | 1 95 |      |
| 110 | 1 63 | 1 67 | 1 70 | 1 72 | 1 74 | 1 76 | 1 78 | 1 80 | 1 82 | 1 84 | 1 86 | 1 88 | 1 90 | 1 92 | 1 94 | 1 96 |      |
| 111 | 1 64 | 1 68 | 1 71 | 1 73 | 1 75 | 1 77 | 1 79 | 1 81 | 1 83 | 1 85 | 1 87 | 1 89 | 1 91 | 1 93 | 1 95 | 1 97 |      |
| 112 | 1 65 | 1 69 | 1 72 | 1 74 | 1 76 | 1 78 | 1 80 | 1 82 | 1 84 | 1 86 | 1 88 | 1 90 | 1 92 | 1 94 | 1 96 | 1 98 |      |
| 113 | 1 66 | 1 70 | 1 73 | 1 75 | 1 77 | 1 79 | 1 81 | 1 83 | 1 85 | 1 87 | 1 89 | 1 91 | 1 93 | 1 95 | 1 97 | 1 99 |      |
| 114 | 1 67 | 1 71 | 1 74 | 1 76 | 1 78 | 1 80 | 1 82 | 1 84 | 1 86 | 1 88 | 1 90 | 1 92 | 1 94 | 1 96 | 1 98 | 2 00 |      |
| 115 | 1 68 | 1 72 | 1 75 | 1 77 | 1 79 | 1 81 | 1 83 | 1 85 | 1 87 | 1 89 | 1 91 | 1 93 | 1 95 | 1 97 | 1 99 | 2 01 |      |
| 116 | 1 69 | 1 73 | 1 76 | 1 78 | 1 80 | 1 82 | 1 84 | 1 86 | 1 88 | 1 90 | 1 92 | 1 94 | 1 96 | 1 98 | 2 00 | 2 02 |      |
| 117 | 1 70 | 1 74 | 1 77 | 1 79 | 1 81 | 1 83 | 1 85 | 1 87 | 1 89 | 1 91 | 1 93 | 1    |      |      |      |      |      |







|     |       |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|-----|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 41  | 1 44  | 1 46   | 1 49    | 1 51    | 1 53    | 1 54    | 1 56    | 1 58    | 0       | 3       | 2       | 3       | 5       | 5       | 5       | 6       | 6       | 1       |         |
| 42  | 1 47  | 1 50   | 1 52    | 1 54    | 1 56    | 1 57    | 2 0     | 2 1     | 2 3     | 2 4     | 2 4     | 2 5     | 2 5     | 2 6     | 2 6     | 2 6     | 2 7     | 2 7     | 2 8     |
| 43  | 1 49  | 1 53   | 1 55    | 1 56    | 1 58    | 2 0     | 2 1     | 2 2     | 2 4     | 2 4     | 2 5     | 2 6     | 2 6     | 2 7     | 2 7     | 2 7     | 2 8     | 2 8     | 2 9     |
| 44  | 1 54  | 1 56   | 1 57    | 2 0     | 2 1     | 2 2     | 2 3     | 2 3     | 2 4     | 2 4     | 2 5     | 2 5     | 2 6     | 2 6     | 2 7     | 2 7     | 2 8     | 2 8     | 2 9     |
| 45  | 1 54  | 1 56   | 2 0     | 2 1     | 2 2     | 2 3     | 2 3     | 2 3     | 2 4     | 2 4     | 2 5     | 2 5     | 2 6     | 2 6     | 2 7     | 2 7     | 2 8     | 2 8     | 2 9     |
| 46  | 1 57  | 2 1    | 2 3     | 2 5     | 2 7     | 2 8     | 2 8     | 2 9     | 2 11    | 2 11    | 2 12    | 2 12    | 2 13    | 2 13    | 2 14    | 2 14    | 2 15    | 2 15    | 2 16    |
| 47  | 1 59  | 2 3    | 2 5     | 2 7     | 2 9     | 2 11    | 2 12    | 2 12    | 2 13    | 2 13    | 2 14    | 2 14    | 2 15    | 2 15    | 2 16    | 2 16    | 2 17    | 2 17    | 2 18    |
| 48  | 2 2 4 | 2 3 6  | 2 5 8   | 2 10 12 | 2 12 14 | 2 14 17 | 2 16 18 | 2 18 21 | 2 20 22 | 2 21 23 | 2 22 24 | 2 23 25 | 2 24 26 | 2 25 27 | 2 26 28 | 2 27 29 | 2 28 30 | 2 29 31 | 2 30 32 |
| 49  | 2 5 7 | 2 9 11 | 2 11 13 | 2 13 15 | 2 15 18 | 2 17 21 | 2 19 22 | 2 20 24 | 2 22 26 | 2 23 25 | 2 24 28 | 2 26 30 | 2 28 32 | 2 30 34 | 2 32 36 | 2 34 38 | 2 36 40 | 2 38 42 | 2 40 44 |
| 50  | 2 9   | 2 11   | 2 13    | 2 15    | 2 18    | 2 21    | 2 23    | 2 26    | 2 28    | 2 30    | 2 32    | 2 34    | 2 36    | 2 38    | 2 40    | 2 42    | 2 44    | 2 46    | 2 48    |
| 51  | 3 10  | 3 12   | 3 14    | 3 16    | 3 19    | 3 22    | 3 24    | 3 27    | 3 29    | 3 31    | 3 33    | 3 35    | 3 38    | 3 40    | 3 42    | 3 44    | 3 46    | 3 48    | 3 50    |
| 52  | 3 15  | 3 17   | 3 19    | 3 21    | 3 24    | 3 27    | 3 29    | 3 32    | 3 35    | 3 37    | 3 39    | 3 41    | 3 43    | 3 46    | 3 48    | 3 50    | 3 52    | 3 54    | 3 56    |
| 53  | 3 17  | 3 20   | 3 22    | 3 24    | 3 28    | 3 31    | 3 33    | 3 36    | 3 39    | 3 41    | 3 43    | 3 46    | 3 48    | 3 50    | 3 52    | 3 54    | 3 56    | 3 58    | 3 60    |
| 54  | 3 20  | 3 22   | 3 24    | 3 26    | 3 31    | 3 34    | 3 36    | 3 39    | 3 40    | 3 42    | 3 44    | 3 46    | 3 48    | 3 50    | 3 52    | 3 54    | 3 56    | 3 58    | 3 60    |
| 55  | 3 20  | 3 24   | 3 27    | 3 29    | 3 31    | 3 34    | 3 36    | 3 39    | 3 40    | 3 42    | 3 44    | 3 46    | 3 48    | 3 50    | 3 52    | 3 54    | 3 56    | 3 58    | 3 60    |
| 56  | 2 25  | 2 27   | 2 29    | 2 31    | 2 34    | 2 36    | 2 39    | 2 41    | 2 43    | 2 45    | 2 47    | 2 49    | 2 51    | 2 53    | 2 55    | 2 57    | 2 59    | 3 1     | 3 3     |
| 57  | 2 25  | 2 27   | 2 29    | 2 31    | 2 34    | 2 36    | 2 39    | 2 41    | 2 43    | 2 45    | 2 47    | 2 49    | 2 51    | 2 53    | 2 55    | 2 57    | 2 59    | 3 1     | 3 3     |
| 58  | 2 27  | 2 30   | 2 32    | 2 34    | 2 37    | 2 39    | 2 42    | 2 44    | 2 46    | 2 48    | 2 50    | 2 52    | 2 54    | 2 56    | 2 58    | 3 0     | 3 2     | 3 4     | 3 6     |
| 59  | 2 30  | 2 32   | 2 35    | 2 37    | 2 40    | 2 42    | 2 45    | 2 47    | 2 50    | 2 52    | 2 54    | 2 56    | 2 58    | 3 0     | 3 2     | 3 4     | 3 6     | 3 8     | 4 0     |
| 60  | 2 33  | 2 35   | 2 38    | 2 41    | 2 44    | 2 47    | 2 50    | 2 53    | 2 55    | 2 58    | 3 0     | 3 2     | 3 4     | 3 6     | 3 8     | 4 0     | 4 2     | 4 4     | 4 6     |
| 61  | 2 33  | 2 35   | 2 38    | 2 41    | 2 44    | 2 47    | 2 50    | 2 53    | 2 55    | 2 58    | 3 0     | 3 2     | 3 4     | 3 6     | 3 8     | 4 0     | 4 2     | 4 4     | 4 6     |
| 62  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 63  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 64  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 65  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 66  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 67  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 68  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 69  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 70  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 71  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 72  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 73  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 74  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 75  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 76  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 77  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 78  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 79  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 80  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 81  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 82  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 83  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 84  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 85  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 86  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 87  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 88  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 89  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 90  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 91  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 92  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 93  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 94  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 95  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 96  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 97  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 98  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 99  | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |
| 100 | 3 5   | 3 10   | 3 15    | 3 20    | 3 25    | 3 30    | 3 35    | 3 40    | 3 45    | 3 50    | 3 55    | 4 0     | 4 5     | 5 0     | 5 5     | 6 0     | 6 5     | 7 0     | 7 5     |















Table VII Diurnal Motion of the Planets

| TIME | 24 HOUR TRAVEL |       |       |       |       |       |       |       |       |        |        |        |        |        |        |      | TIME |
|------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|------|------|
|      | 1° 1'          | 1° 2' | 1° 3' | 1° 4' | 1° 5' | 1° 6' | 1° 7' | 1° 8' | 1° 9' | 1° 10' | 1° 11' | 1° 12' | 1° 13' | 1° 14' | 1° 15' |      |      |
| 1    | 0 3            | 0 3   | 0 3   | 0 3   | 0 3   | 0 3   | 0 3   | 0 3   | 0 3   | 0 3    | 0 3    | 0 3    | 0 3    | 0 3    | 0 3    | 0 3  |      |
| 2    | 0 5            | 0 5   | 0 5   | 0 5   | 0 5   | 0 5   | 0 5   | 0 5   | 0 5   | 0 5    | 0 5    | 0 5    | 0 5    | 0 5    | 0 5    | 0 5  |      |
| 3    | 0 6            | 0 6   | 0 6   | 0 6   | 0 6   | 0 6   | 0 6   | 0 6   | 0 6   | 0 6    | 0 6    | 0 6    | 0 6    | 0 6    | 0 6    | 0 6  |      |
| 4    | 0 8            | 0 8   | 0 8   | 0 8   | 0 8   | 0 8   | 0 8   | 0 8   | 0 8   | 0 8    | 0 8    | 0 8    | 0 8    | 0 8    | 0 8    | 0 8  |      |
| 5    | 0 10           | 0 10  | 0 10  | 0 11  | 0 11  | 0 11  | 0 11  | 0 11  | 0 12  | 0 12   | 0 12   | 0 12   | 0 12   | 0 12   | 0 12   | 0 12 |      |
| 6    | 0 13           | 0 13  | 0 13  | 0 14  | 0 14  | 0 14  | 0 14  | 0 14  | 0 14  | 0 15   | 0 15   | 0 15   | 0 15   | 0 15   | 0 15   | 0 15 |      |
| 7    | 0 15           | 0 15  | 0 15  | 0 16  | 0 16  | 0 17  | 0 17  | 0 17  | 0 17  | 0 18   | 0 18   | 0 18   | 0 18   | 0 18   | 0 18   | 0 18 |      |
| 8    | 0 18           | 0 18  | 0 18  | 0 19  | 0 19  | 0 19  | 0 20  | 0 20  | 0 20  | 0 21   | 0 21   | 0 21   | 0 21   | 0 21   | 0 21   | 0 21 |      |
| 9    | 0 23           | 0 23  | 0 23  | 0 24  | 0 24  | 0 24  | 0 25  | 0 25  | 0 25  | 0 26   | 0 26   | 0 26   | 0 26   | 0 26   | 0 26   | 0 26 |      |
| 10   | 0 28           | 0 28  | 0 28  | 0 27  | 0 27  | 0 28  | 0 28  | 0 28  | 0 29  | 0 29   | 0 30   | 0 30   | 0 30   | 0 30   | 0 30   | 0 30 |      |
| 11   | 0 28           | 0 28  | 0 29  | 0 29  | 0 30  | 0 30  | 0 31  | 0 31  | 0 32  | 0 32   | 0 33   | 0 33   | 0 33   | 0 33   | 0 34   | 0 34 |      |
| 12   | 0 31           | 0 31  | 0 32  | 0 32  | 0 33  | 0 33  | 0 34  | 0 34  | 0 35  | 0 35   | 0 36   | 0 36   | 0 36   | 0 37   | 0 37   | 0 38 |      |
| 13   | 0 33           | 0 34  | 0 34  | 0 35  | 0 35  | 0 36  | 0 36  | 0 37  | 0 37  | 0 38   | 0 38   | 0 39   | 0 39   | 0 40   | 0 40   | 0 41 |      |
| 14   | 0 35           | 0 36  | 0 37  | 0 37  | 0 38  | 0 38  | 0 39  | 0 39  | 0 40  | 0 40   | 0 41   | 0 41   | 0 42   | 0 43   | 0 43   | 0 44 |      |
| 15   | 0 38           | 0 39  | 0 39  | 0 40  | 0 41  | 0 41  | 0 42  | 0 43  | 0 43  | 0 44   | 0 44   | 0 45   | 0 45   | 0 46   | 0 46   | 0 47 |      |
| 16   | 0 41           | 0 41  | 0 42  | 0 42  | 0 43  | 0 44  | 0 45  | 0 45  | 0 46  | 0 46   | 0 47   | 0 48   | 0 48   | 0 49   | 0 49   | 0 50 |      |
| 17   | 0 43           | 0 44  | 0 45  | 0 45  | 0 46  | 0 47  | 0 47  | 0 48  | 0 49  | 0 50   | 0 50   | 0 51   | 0 51   | 0 52   | 0 52   | 0 53 |      |
| 18   | 0 46           | 0 47  | 0 47  | 0 48  | 0 48  | 0 49  | 0 50  | 0 50  | 0 51  | 0 51   | 0 52   | 0 53   | 0 53   | 0 54   | 0 54   | 0 55 |      |
| 19   | 0 48           | 0 49  | 0 50  | 0 51  | 0 51  | 0 52  | 0 53  | 0 53  | 0 54  | 0 55   | 0 55   | 0 56   | 0 56   | 0 57   | 0 57   | 0 58 |      |
| 20   | 0 51           | 0 52  | 0 53  | 0 53  | 0 54  | 0 55  | 0 56  | 0 56  | 0 57  | 0 58   | 0 58   | 0 59   | 0 59   | 0 59   | 0 59   | 0 59 |      |
| 21   | 0 53           | 0 54  | 0 55  | 0 55  | 0 56  | 0 57  | 0 58  | 0 58  | 0 59  | 0 59   | 1 0    | 1 0    | 1 0    | 1 0    | 1 0    | 1 0  |      |
| 22   | 0 56           | 0 57  | 0 58  | 0 58  | 0 59  | 0 59  | 1 0   | 1 0   | 1 1   | 1 1    | 1 1    | 1 1    | 1 1    | 1 1    | 1 1    | 1 1  |      |
| 23   | 0 58           | 0 59  | 1 0   | 1 0   | 1 1   | 1 1   | 1 2   | 1 2   | 1 2   | 1 3    | 1 3    | 1 3    | 1 3    | 1 3    | 1 3    | 1 3  |      |
| 24   | 1 0            | 1 1   | 1 1   | 1 1   | 1 2   | 1 2   | 1 3   | 1 3   | 1 4   | 1 4    | 1 4    | 1 5    | 1 5    | 1 5    | 1 5    | 1 5  |      |
| 25   | 1 4            | 1 4   | 1 5   | 1 5   | 1 6   | 1 6   | 1 7   | 1 7   | 1 8   | 1 8    | 1 9    | 1 9    | 1 9    | 1 10   | 1 10   | 1 10 |      |
| 26   | 1 6            | 1 7   | 1 8   | 1 8   | 1 9   | 1 9   | 1 10  | 1 10  | 1 11  | 1 11   | 1 12   | 1 12   | 1 12   | 1 13   | 1 13   | 1 13 |      |
| 27   | 1 9            | 1 10  | 1 11  | 1 12  | 1 12  | 1 13  | 1 13  | 1 14  | 1 14  | 1 15   | 1 15   | 1 16   | 1 16   | 1 16   | 1 16   | 1 16 |      |
| 28   | 1 11           | 1 12  | 1 13  | 1 14  | 1 14  | 1 15  | 1 15  | 1 16  | 1 16  | 1 17   | 1 17   | 1 18   | 1 18   | 1 18   | 1 18   | 1 18 |      |
| 29   | 1 14           | 1 15  | 1 16  | 1 16  | 1 17  | 1 17  | 1 18  | 1 18  | 1 19  | 1 20   | 1 20   | 1 21   | 1 21   | 1 21   | 1 21   | 1 21 |      |
| 30   | 1 16           | 1 18  | 1 19  | 1 20  | 1 21  | 1 21  | 1 22  | 1 22  | 1 23  | 1 23   | 1 24   | 1 24   | 1 24   | 1 25   | 1 25   | 1 25 |      |
| 31   | 1 19           | 1 20  | 1 21  | 1 23  | 1 24  | 1 24  | 1 25  | 1 25  | 1 26  | 1 26   | 1 27   | 1 27   | 1 27   | 1 28   | 1 28   | 1 28 |      |
| 32   | 1 21           | 1 23  | 1 24  | 1 25  | 1 27  | 1 27  | 1 28  | 1 28  | 1 29  | 1 29   | 1 30   | 1 30   | 1 30   | 1 31   | 1 31   | 1 31 |      |
| 33   | 1 24           | 1 25  | 1 27  | 1 28  | 1 29  | 1 31  | 1 32  | 1 32  | 1 33  | 1 33   | 1 34   | 1 34   | 1 34   | 1 35   | 1 35   | 1 35 |      |
| 34   | 1 26           | 1 28  | 1 29  | 1 31  | 1 32  | 1 34  | 1 35  | 1 35  | 1 36  | 1 36   | 1 37   | 1 37   | 1 37   | 1 38   | 1 38   | 1 38 |      |
| 35   | 1 29           | 1 30  | 1 32  | 1 33  | 1 35  | 1 36  | 1 38  | 1 38  | 1 39  | 1 41   | 1 42   | 1 42   | 1 43   | 1 43   | 1 43   | 1 43 |      |
| 36   | 1 31           | 1 33  | 1 34  | 1 36  | 1 38  | 1 39  | 1 41  | 1 42  | 1 43  | 1 45   | 1 46   | 1 46   | 1 46   | 1 47   | 1 47   | 1 47 |      |
| 37   | 1 37           | 1 38  | 1 39  | 1 40  | 1 42  | 1 43  | 1 45  | 1 45  | 1 46  | 1 48   | 1 48   | 1 48   | 1 48   | 1 49   | 1 49   | 1 49 |      |
| 38   | 1 39           | 1 41  | 1 42  | 1 44  | 1 45  | 1 47  | 1 48  | 1 49  | 1 51  | 1 51   | 1 51   | 1 51   | 1 51   | 1 52   | 1 52   | 1 52 |      |
| 39   | 1 41           | 1 43  | 1 44  | 1 46  | 1 47  | 1 49  | 1 50  | 1 50  | 1 52  | 1 52   | 1 52   | 1 52   | 1 52   | 1 53   | 1 53   | 1 53 |      |
| 40   | 1 42           | 1 43  | 1 45  | 1 47  | 1 48  | 1 50  | 1 51  | 1 51  | 1 53  | 1 53   | 1 53   | 1 53   | 1 53   | 1 54   | 1 54   | 1 54 |      |





# **Test Horoscopes Complete**



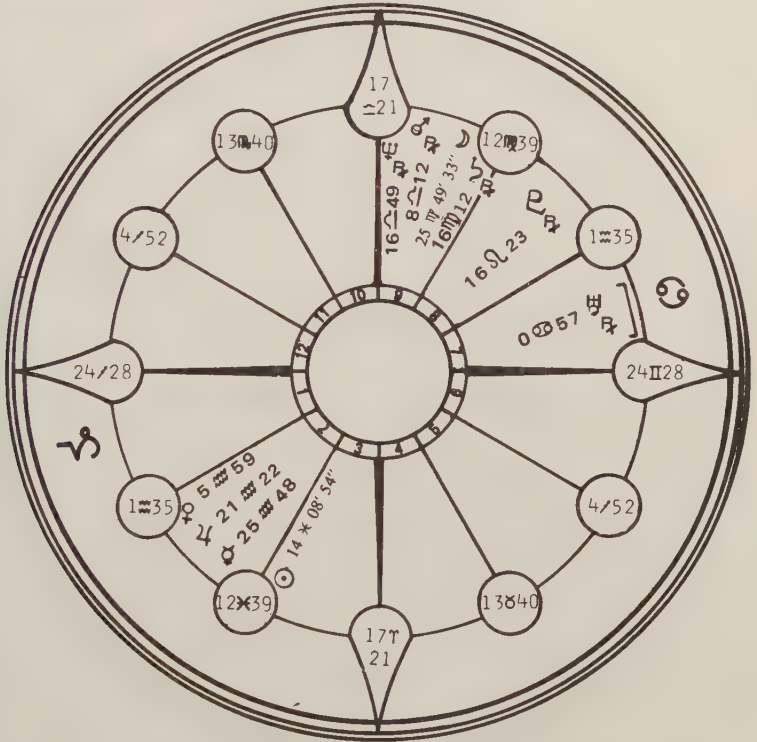


# Test Horoscope 1

March 5, 1950

2:10 AM, EST

N.Y.C. 41 N - 74W



| H         | M         | S          |
|-----------|-----------|------------|
| 22        | 50        | 39         |
| -9        | -50       |            |
|           | -1        | -39        |
|           |           | +50        |
|           | +4        |            |
| <u>13</u> | <u>03</u> | <u>50</u>  |
| (13       | 04        | 00 Tables) |

GMT: 7:10 AM

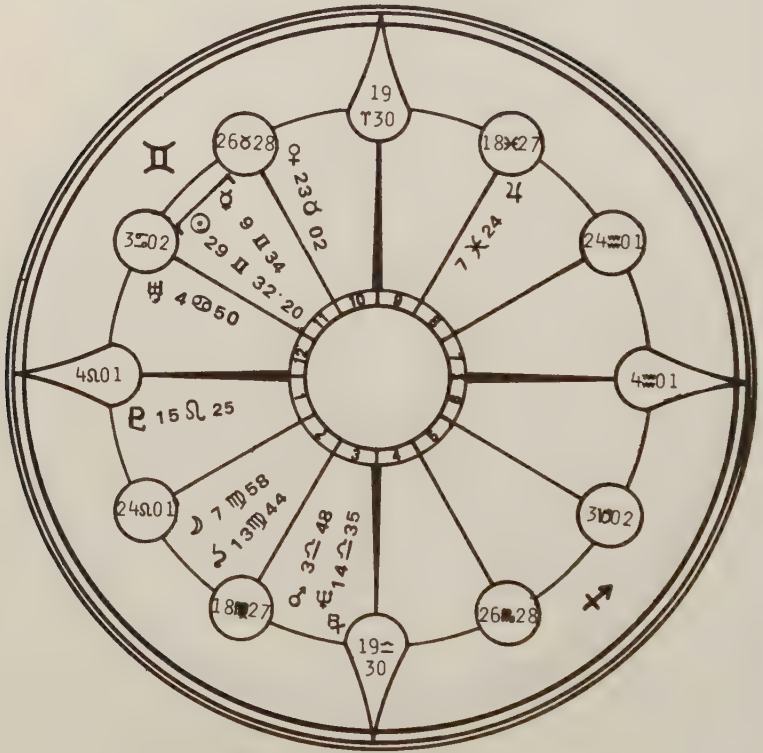
Planets: March 4 + 19:10

Test Horoscope 2

June 21, 1950

8:00 AM, DST  
7:00 AM, EST

Boston 42 N – 71 W

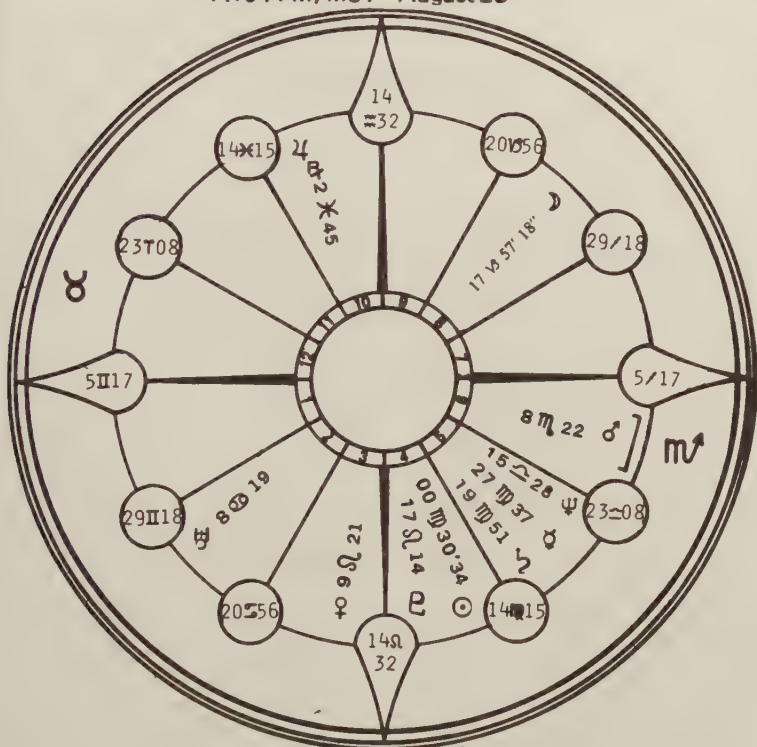


| H  | M  | S          |
|----|----|------------|
| 5  | 56 | 27         |
| -5 | 00 | 00         |
|    |    | -50        |
|    |    | +50        |
|    |    | <u>+16</u> |
| 1  | 12 | 27         |
| (1 | 12 | 00 Tables) |

GMT is noon!

# Test Horoscope 3

August 24, 1950 00:04 AM, DST Santa Fe, N. Mex. 36 N – 106 W  
 11:04 PM, MST August 23



| H   | M  | S                     |
|-----|----|-----------------------|
| 10  | 04 | 51                    |
| +11 | 04 |                       |
|     | +1 | 51                    |
|     |    | +70                   |
|     | -4 |                       |
| 21  | 5  | 172                   |
| 21  | 7  | 52 (Tables: 21-08-00) |

GMT: 6:04 AM August 24  
 Planets: August 23 + 18:04



# **Book II**

## **The Houses: Their Signs and Planets**

**to dwell in a House  
fulfills the Architect**



## Introduction

The horoscope is a map of the heavens at the moment of birth, viewed from the place of birth. The ordering of our solar system takes its place within the identity of man. The horoscope shows the whole of life: its flow from the beginning, through growth, development, exposure and sharing, to the end. The grand circle of the Whole above is divided into sectors of experience on Earth. Life becomes the flow of seasons.

In life as in painting, the art of the creator gains unique expression through organization and composition. The parts flow one into another to balance a concept of creative communication, without ever losing their interrelationships. The parts become the Whole.

Astrology calls these parts of the whole, these sectors of life-experience, *Houses*. The divisions of the horoscope follow the flow of life development in terms of interrelated experiences. The Mansions of the Heavens (the Signs) overlie the Houses of Earth. The whole of the system above finds audience in the system below.

Life-experience lives in Houses.



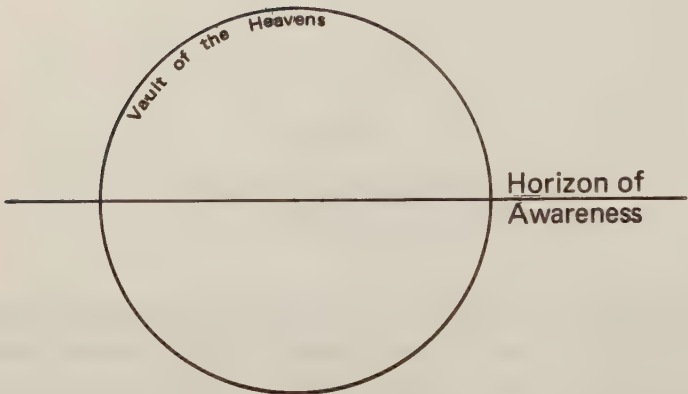


## 10

# Down to Earth

Man measures time by the change from darkness to light, from night to day. Man measures direction between up and down, right and left. He orders energy between positive and negative. His essence bridges spirit and matter. All of life is the interaction of opposites: the Yang and the Yin, the eternal flow; the dualism and symmetry of Nature; the Heavens above, the Earth below.

Man's growth and understanding follow experience. As an artist creates *living* form through a third dimension by adding shade to light and dark, adding perspective to length and breadth, man creates his life-experience by decision and action between alternatives. At birth, the planetary system on Earth of which he is a part becomes personalized within him. Energies, affinities, vibrations, rays . . . whatever . . . some still unknown rapport with the system speaks in man's life experientially. As part of the system, man's identity is mapped by Astrology celestially. As part of unfolding life, the astrological map brings the celestial system down to Earth, constructed upon the dualism and interaction between opposites that comprise all.

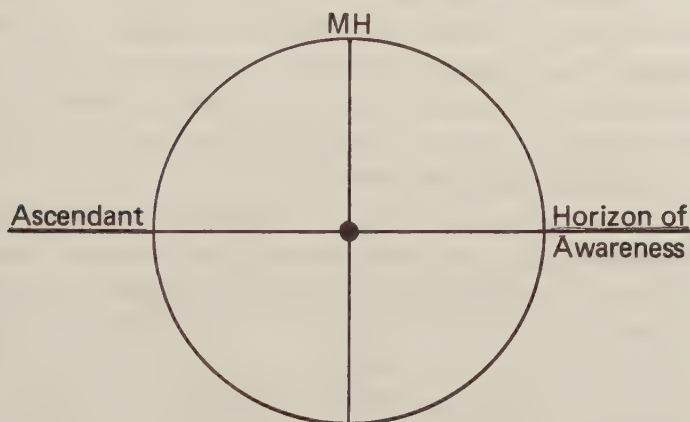


At birth we establish man's horizon through the vault of the Heavens. The horizon is the extent of his vision, the base-line of his awareness. Immediately, we have established a dualism, a cell division creating life.

Remember the Sun symbol ☉, the circle of life with man within. Our horizon measures the points of sunrise and sunset which are enormously symbolic in man's thought and literature, the points where man *receives* and *gives away* the light of his life. Astrologically, the horizon defines man's base position within life awareness: how he shows himself and how he interacts with others.

The Free-Will function of man is to decide between variables, between the beginning of light and the beginning of darkness. This is his highest function,

his spine. We mark the Sun's highest point for man and again divide our chart.



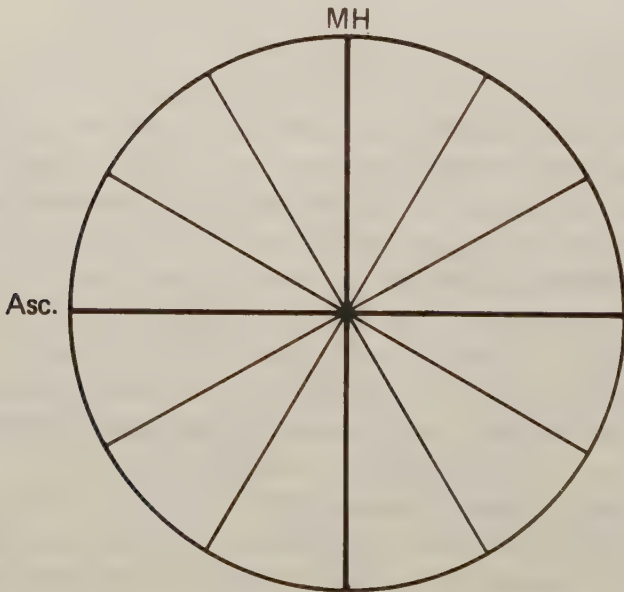
Our circle of the vault of the Heavens is also the apparent path of the Sun around the Earth. This path is called the ecliptic. The vertical axis becomes the Mid-Heaven to the south and the *Imum Coeli* to the north. (The Mid-Heaven/Nadir axis is drawn perpendicular to the observation point on the surface of the Earth. Because of the plane of the Sun's ecliptic and the tilt of the Earth, the uppermost point is to the south for us who live north of the Tropic of Cancer, the farthest point north of the equator reached by the Sun's ecliptic.)

Again, we have a dualism left and right, east and west. The four points we have created on the ecliptic circle are Cardinal points. They are points of special strong

sensitivity within the whole. The quadrature of the chart hangs upon these four points. The life gains directions; the life gains seasons.

Astrology refines the map even further. Subdivisions within the quadrature are needed to measure transition between the powerful points already established. Further sectioning attempts to cover the gradualism of development and the many departments of man's life-experience that condition his Will.

Over the centuries, many systems have been devised: Campanus, Regiomontanus, Ptolemy, and Morin are names of some of the theorists whom we will discuss further as

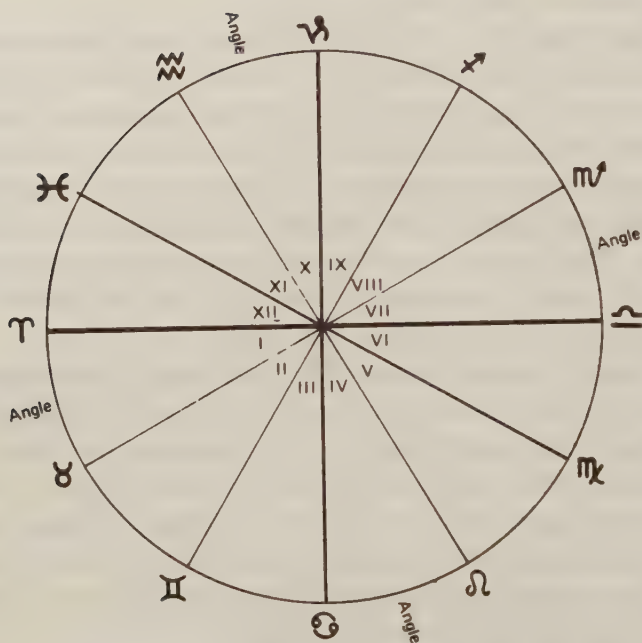


we develop this study series. These men divided the quadrants in terms of space: into equal parts usually with reference to the Earth's poles and/or the Sun's ecliptic. The system most used today divides the quadrants in terms of *time*: the seventeenth century Italian monk Placidus de Tito trisected the time taken by the Sun to pass from one of the four Cardinal points to another . . . the *angles* of the chart. This movement in time captures the development of man in spirit. The astrological map, the horoscope, is complete with 12 divisions, 12 houses.

Marc Edmund Jones, in his *Astrology: How and Why It Works* gives us an inspired metaphor with which to appreciate the meaning of the horoscope chart for man: he describes the infant at birth, stepping outside with outspread arms. His arms form the horizon; his spine sets the Mid-Heaven axis; the scope of his embrace collects the experience of his life. This image is perfect, and we will use it often in analysis of the horoscope.

Signs of the Zodiac overlies the theoretical divisions of the horoscope, the Houses. Here is the bringing together of the dualism of the Heavens and Earth. As the Earth rotates on its axis, the Signs of the Zodiac appear to ascend above the horizon. The Sun appears to rise in the east upward to the Mid-Heaven, then down to the Descendant in the west. The rotation of the Earth translates the changes in the Heavens into Earth reference. The horoscope records that process.

To be most relevant to man, Astrology views the Heavens *from the Earth*. We feel the Earth to be



stationary, and we view the Heavens, the Sun, Moon, and planets as moving around us. When we say the Sun is in Aries, we mean that the Sun is between us and the part of the Heavens marked off as Aries. The Earth is actually orbiting the Sun and is between the Sun and the part of the Heavens marked off as Libra, from the Sun's point of view. The Earth view is the more observable and significant for man in his actual experience. We place the planets within the horoscope as they progress through the Zodiac—from our point of view—and the determination of the House cusps through the *Tables of Houses* takes care

of the rising and setting factors that establish our horizon wherever we are on Earth.

We have learned the Signs from Aries through Pisces in order. This was fully explained in Volume I of this series, *Horoscope Construction*. The astrological Houses gain many of their foundation meanings from the Signs of the Zodiac upon them as shown in the chart on page 8 with Aries on the Ascendant. This is the basic, *natural* distribution of the Signs and Houses showing one astrological year of the Sun's motion, giving symbolic meanings to the succession of Houses for one lifetime of man.





## 11

# The Seasons

The four Cardinal points of the horoscope, east, north, west and south (in Sign progression), mark the seasonal changes on Earth: Aries (March 21) on the first cusp is the beginning of spring, when day and night are equal; Cancer (June 21) on the fourth cusp is when day is longest; Libra (September 23) on the seventh cusp is the second equinoctial point and the beginning of the gain of darkness; Capricorn (December 22) on the tenth cusp marks the time of longest night and the beginning of daylight increase. These seasons symbolically represent the development of man as well, reflected in the Angular Houses and the trisected time spans in each quadrant.

The east point is the *Ascendant*. This is spring, the time of new birth, the reaching of plants through soil deadened by winter. The First House takes on these meanings for man. The inspiration *to be* is focused, birth begins, light increases, and man grows toward his Sun. Whatever Sign is upon the Ascendant tells the nature of this self-projection in the horoscope. *The Sun-Sign energy is assumed by the soul and shown through the Ascendant.*

The north point is the *Imum Coeli*, the beginning of House IV. The early growth of man has gained mature form unto itself. The Fourth House is a new beginning...an end to one matter and the start of another. It represents the home and one of the parents where development is focused. The horoscope shows here the bright light upon a beginning of self-application.

The west point, the beginning of House VII, introduces the world of *others* to man. His drive to apply himself brings human relationship, the employment of others' resources to further build the maturing Self. His day has met a balanced night: House VII symbolizes the concept of sharing, involving the marriage partner, the business partner, the public at large.

The south point, the *Mid-Heaven*, sees the identity fully formed in social expression and outer application. The Tenth House symbolizes the profession, the public honor. The identity is crystallized in mature focus, having persevered through the longest nights, and begins to concretize further its relationship with friends and larger goals as the daylight grows again to balance the night.

These four Angular Houses—I, IV, VII, and X—symbolize the full circle of man's lifetime, a developmental cycle. There is a wealth of detail as we shall see, but the polarities should be clear now: the Aries accentuation of Self is given to House I, and the Libra (opposite Sign) dimension of sociability is introduced with House VII. The early crystallization of Self in the home is assigned to House IV through Cancer, and the

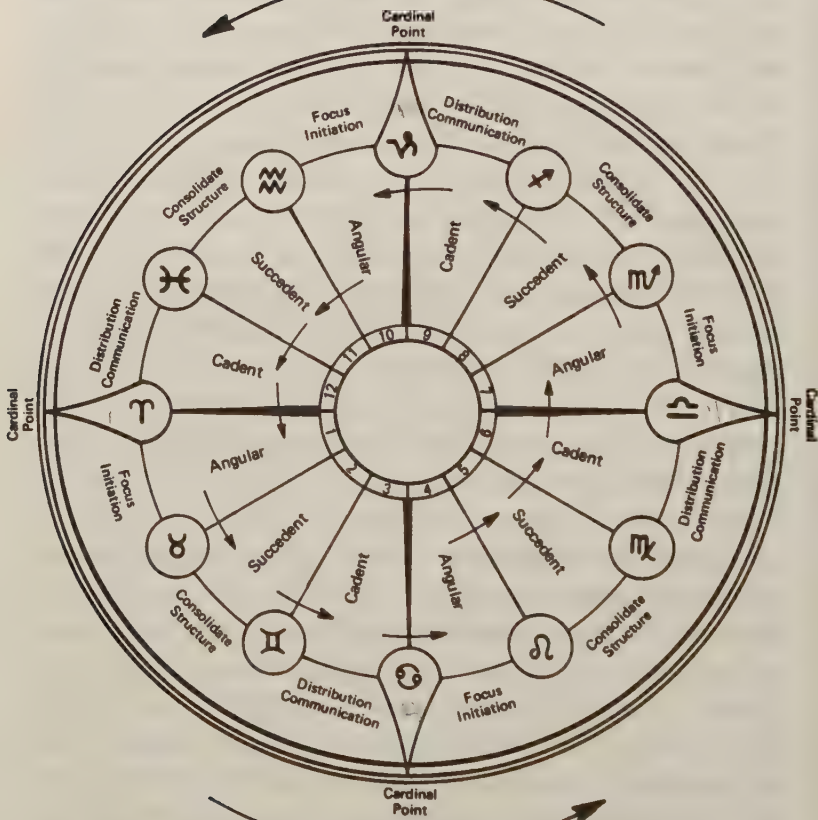
crystallization of Self in the outside, professional world is assigned to X, through Capricorn (the opposite Sign).—The southern half of the horoscope, *above* the horizon, is the Ego's awareness among men; the northern half, below the horizon, is the Ego's accumulation of selfhood, its intuition, its inner qualities, in preparation for sharing and relationships "above the horizon."

The interior Houses, the trisected portions within each quadrant, issue from one Cardinal point and lead toward the next. The second House in *any* quadrant follows in meaning from the first. These "second" Houses in each quadrant (II, V, VIII, and XI) are called *Succedent* Houses. The third House in *any* quadrant (III, VI, IX, and XII) "falls" away from the preceding Angular and Succedent Houses and leads to the next Angular House that follows it immediately. These "third" Houses are called *Cadent* Houses.

Study the diagram on page 14. The Angular Houses gain their significance from the Signs placed on them *naturally*, in our understanding of the basic astrological year (spring to spring). The Angular Houses have Aries, Cancer, Libra, and Capricorn on them in this natural order. These are the four *Cardinal Signs* studied in Volume I. We see now that the Angular Houses (I, IV, VII, X) have the powerful individuating significances that echo the Cardinal Signs (Aries: individual thrust; Cancer: home security and emotions; Libra: sociability; Capricorn: ambitious application).

Now note the Signs that fall upon the Succedent Houses (II, V, VIII, XI). The *Fixed Signs* Taurus, Leo,

# Natural House Flow



# Natural Sign Distribution

Scorpio, and Aquarius will give their symbolic meanings to these Houses. There will be an organization of security, a creative structure, a deep enrichment, and a broad application transferred to the respective Houses. The Succedent Houses, then, receive from the Angular and give developments form and structure. In a sense, the midpoints of the Succedent Houses are equidistant from two angles and *symbolize the farthest taking from one and the beginning of development toward the next*. For these Succedent Houses, there is a take-and-develop meaning.

Note the Signs falling upon the Cadent Houses (III, VI, IX, XII). The *Mutable Signs* Gemini, Virgo, Sagittarius, and Pisces will give their symbolic meanings to these Houses. There will be given a distribution, a discrimination, an idealized assimilation, and a sensitive reception of what has gone before to the respective Cadent Houses. What was born in the Angular Houses and given structure in the Succedent Houses is assimilated by the Cadent Houses and distributed, communicated further . . . to the next Angular House.

*The House I Self becomes ordered in House II as personal resources and is distributed in House III as communication. A new beginning usually occurs for the next phase of development within House IV.*—This cycle is repeated in every quadrant, building and developing all life-experiences.

Now let us study the basic meanings of each of the twelve Houses.

*House I: the Self.* House I is the Self shown to others. Often, certain Signs manifest themselves strongly in personal appearance when they fall upon the Ascendant and the ruling planet is emphasized within the horoscope: with an Aries Ascendant, we often see someone with reddish hair, flushed complexion, slightly pointed chin; with Taurus, often a stocky build; Gemini, a wiriness of figure; with Cancer, a roundness of figure, often a moon-face; with Leo, a predilection to blond hair and a mane of hair that is a readily noticeable feature; Virgo, a smallness of figure and small sharp features; with Libra, a sensitively developed refinement or beauty; Scorpio, a large, strong, sometimes square appearance, often with excessive body hair; Sagittarius, lean and lanky, outdoorsy; Capricorn, angular, grayish appearance, lean and strong; Aquarius, bright, flushed, square-cut, alert body; Pisces, a softness and misty quality about the eyes, an unassuming appearance.

The physical appearance keyed by the Ascendant is not completely reliable. The Sun-Sign can be so pronounced in distribution throughout the horoscope that *its* force overwhelms the physical part of the Ascendant. Older texts in Astrology make a great deal of the link between Ascendant and physical appearance. More often than not, we do see the registration of the Ascendant in a *combination* of body structure and adornment, as well as the temperament that seems to emanate from the whole being. Clothes and colors complement the figure. Color choice in particular (Volume I) is keyed to temperament.—Start to observe and you will begin to see

the Ascendant in the person's self-presentation in many ways.

*The Sun energy is assumed by the organism and shown to others through the Sign on the Ascendant.* Here is the first major blend, the first major synthesis we must make in the horoscope. We study a horoscope and see a Capricorn Sun and a Cancer Ascendant. We must learn how the Capricorn life-energy will operate when reflected through the Cancer mirror, as it were. This Cardinal Sign polarity would allow an easy blend because Capricorn and Cancer are Signs opposite one another and one complements the other: the administrative, executive drive of the Capricorn energy to make the Self significant in its application to the world, approached carefully and patiently, would be shown to be much more emotional than usual, "softer." Much of the Capricorn "dryness" with regard to emotionality would be mitigated. The home would be as important as the office.

A Pisces Sun and a Leo Ascendant will often show the receptive values of the Pisces Sun energy strengthened by the Leo light and stature. The showing of Self to others would be far stronger than if another Mutable Sign (Gemini, Virgo, or Sagittarius) were on the Ascendant. The best listener could become the group leader.

A Leo Sun and an Aries Ascendant might be too much "fire" in the personality: the demand for stature (Leo) would show itself to the public through a powerful thrust of Self, perhaps a recklessness, in Aries. Many mistakes would be made before achieving stature. To curb the energy strategically would be the demand upon the system.

The Sign upon the Ascendant also often determines the *outlook on life*. This follows naturally the meaning of House I as a show of Self: the Self makes a showing in terms of the Ascendant's Sign, viewing life in those terms. A Virgo Ascendant would bring strong discrimination to the decision-making process. With a Pisces Sun, the grand receptivity of the life-energy would have an edge of discrimination in order to organize self-presentation. But, since both the Sun and Ascendant are in Mutable Signs and therefore reactant, a stronger distribution would be needed among the planets in the rest of the horoscope to provide good organization.—Reversing this: with a Virgo Sun-Sign and a Pisces Ascendant, the discriminating energy from the Sun would seek to receive influence and substance from many other areas, levels and media in life in order to find the personal ideal. And again, a strong distribution structure elsewhere in the horoscope would be important for maximum use of the core energies.

The planet that rules the Sign on the Ascendant is extremely significant within the horoscope. This "ruling planet" carries the nature of its own Sign to another area of the horoscope: *the Self image is distributed first and foremost by this ruler*. With the Pisces Sun and Virgo Ascendant, the placement of Mercury, ruler of Virgo, is extremely important to show how and where the Self is focused. If the ruling planet is *also* in the First House, i.e., if Mercury were also in Virgo in I, the focus upon individuality would generally be seen as strong and successful in presentation.

*Aries Sun*

*See Mercury = also ruled by Sun*

*My Sun in Aries*



*The Ascendant, then, is the beginning.* It begins as the eastern Cardinal point and is called an Angular House. *It is the primary stage of the Self, the "stuff" for development, the most natural tendencies.* The values for this image are taken from the Sign that is found on the Ascendant, in a blend with the Sun's Sign, and distributed or focused by the ruling planet.

*House II: personal resources.* What begins to live in House I is given structure and value in II. The need for fulfillment grows. The resources to be used toward fulfillment are described. The Self takes form, boundary. The material is amassed for use in self-projection.

Here we read finances, material acquisition, plans for material security. Any Sign on the cusp of House II gives its nature to the management and projection of personal worth. Any planet within II distills the meaning further. Gemini on the cusp of II could easily indicate the possibility of more than one source of income, since it is a "double-bodied" Sign. How the possibility would be realized would depend upon the position within the chart of Mercury, the ruler of Gemini. The diversity of Gemini and Mercury would have a challenge here: would the desire for several financial sources match the ability focused in the rest of the horoscope to work and maintain the goals; would the work effort demand multiple sources of income to fulfill the identity?

With Gemini on the cusp of II, Taurus would most likely be on the Ascendant. Taurus is the natural Sign of

House II. Its ruler Venus would synthesize with Mercury to create a real awareness of House II affairs within the particular horoscope.

Public performers have an especially significant House II: the Self has become their worth. They are bought and sold on the entertainment market. Their financial success is clearly established by activity within or related to House II.

*House III: communications, short travel, brethren, neighbors.* The Cadent House III “falls” away from Houses I and II and leads to the next Cardinal point, the Angular House IV. House III disseminates the growing worth of the individual. It is a House chiefly of communication and distribution: through relationships within the first family circle, the brothers and sisters, then the neighbors; writing; short trips to learn and share thoughts; the sense of humor is seen in III, how the identity begins to see itself. The publicity of the individual is beginning.

In House I, the Self is born for projection. In II, its resources are structured. In III, its worth is communicated and distributed. III is the House of ideas, sensory impressions, the ability to appreciate, the intelligence, the forming of short-range objectives to communicate the Self.

House III is the natural House of Gemini and its symbolic meanings along with those of Mercury, its ruler, are the grounding of House III significances. If Mars with all its energy were placed in House III, we could expect a general impatience and restlessness, an intense communication of Self. A great focus of planetary energy in this House easily inclines the identity to

communications—writing, broadcasting—and/or travel as a fulfillment of self-projection.

*House IV: the home, the soul, a parent, end and new beginning.* In the House development, we arrive at a second Cardinal point, a second Angular House. The Self of I is developmentally focused in IV. The first communications of worth have begun and the light of Self is at its brightest. Now the Self prepares to take on the influence of the home, one parent in particular, to develop in depth, in preparation for relationship with the world.—It is the natural House of the Sign Cancer, ruled by the Moon.

In advanced astrological theory, House IV stands for the end period in life. At this point in our study, let us see it more simply as an ending of *one* period of development and the beginning of another. For example: a 7-year-old being put out into the school community, or an adolescent entering manhood, or an older person retiring, or a man in his prime taking a new direction in his life, affecting his home, his security, and his whole Self. One period ends and a new one begins. *House IV is an area of new beginning.*

The time to get established is focused here in IV. One parent in particular becomes important. Although there are several different theories on this, it is most reliably the parent of the opposite sex from the Self. A family problem involving one of the parents is most often seen in House IV or through the condition of the planet ruling the Sign on the fourth cusp.

The home of IV can be the homeland as well. With an individual who travels and works abroad for long periods of time, House IV does become his relationship with his birth country.

House IV is the beginning of reality, earliest maturity, and deeply significant shifts in life direction. As the natural House of the Sign Cancer, IV takes on much of this Sign's symbolism: the emphasis on home, the emergent emotions, security, and earliest memories and experience.

*House V: exteriorization of Self, loving, creativity, children, recreation.* House V, a Succedent House, the natural House of Leo, is the second House of IV (always begin counting Houses with the base House: IV would be one, V would be two), meaning that V would give structure (the second) to what is taken in at IV: the atmosphere of the home (IV) becomes the example for the first extension of the Self, the first emotional giving to others (V). The capacity to love is read here in V, as is one's extension of Self to children (through teaching, for example). A problem in the home (IV) would find repetition in the new home structure through one's own children.—Additionally, love affairs, the sex act... amusements, entertainment, drama are seen in V... creativity, emotional expression, the early splashes of success... speculation.

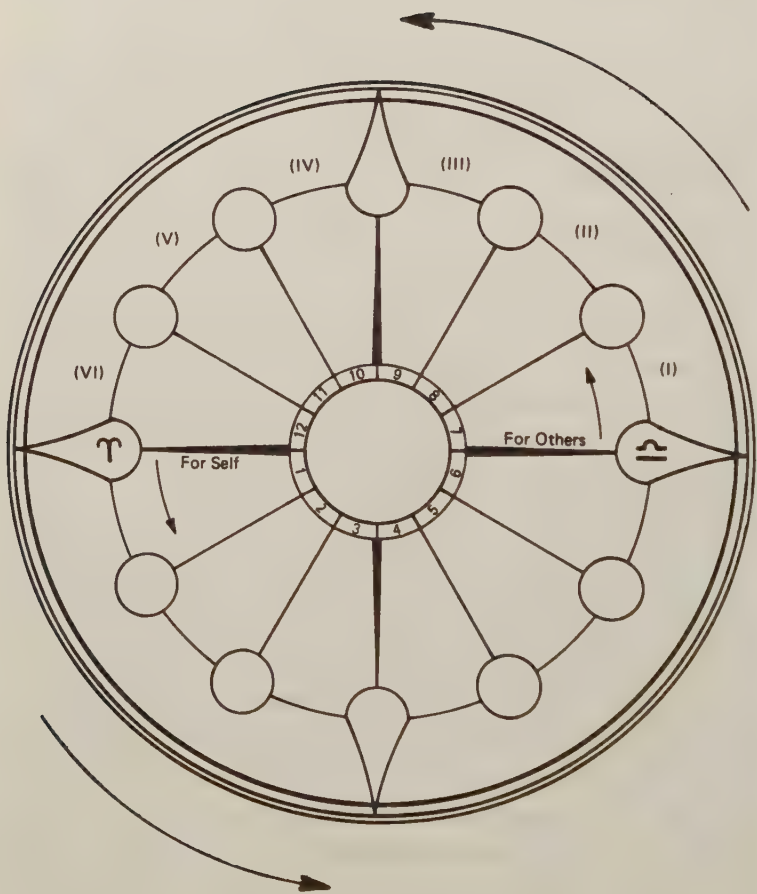
As is the case with every House, the nature of a planet in V modifies all of these meanings. If there is no planet in V, we look to where the planet ruling the Sign on

the fifth cusp is located in order to clarify further House V affairs.

*House VI: sickness, worker relationships, sense of service.* VI is the natural House of Virgo and its ruler Mercury: the symbolism of work and service and of discriminating waiting for the ideal brings House VI affairs into focus. VI is Cadent, leading to the next Cardinal point, the next Angular House, at the west. House VI *reacts* to what has developed just before. It is the next House from V: it receives the creativity and speculation of V, and, as a Cadent House, communicates the concretized Self on a new path. House VI is the Self at work, in service, possibly involved in conflicts resulting from the externalization process; sickness.

In older texts, much was made of “servants” in House VI. The meaning is valid and does apply to servants, but it must be changed somewhat to fit our times. As man begins to reach out into the world to form relationships, he uses helpers. Others work with him. The servants in households were/are supports for the master or mistress in self-projection. Coworkers in a modern situation do the same: a secretary, an auto mechanic, chauffeur, the grocer or the dry cleaner, the cleaning lady, coworkers on the job . . . support people and people working with the Self, but *not* equal partners in leadership positions, or employers.

Perhaps the Self energy in externalization has problems. Sickness can occur from many causes:



remembering the Ascendant that began the cycle, the body can be affected; the monies can be poorly managed on the job; the ideas in a work situation can be rejected; the home security can be threatened through overwork; the creativity or love life can be affected negatively . . . all conflicts from the Houses before can be reflected symbolically in sickness or job problems in the reactant House VI.

House VI is leading to VII, to bona fide relationship with the world. The Self has evolved to another phase of the developmental way.

Basically, knowing the first six Houses is knowing the second six, *except that the application is to other people in the life of the Self*: House VII, opposite the Ascendant, is the *other* person, the *other* in relationship with the Self; VIII is the second of VII and connotes the other person's resources; IX, the third of VII, shows how the others, how society communicates or distributes to the Self intelligence and opinion, i.e., laws, codes, and intellect . . . to be internalized by the emergent Self; X, opposite IV shows another strong focus—how the others receive the full bloom of Self in the profession or for social honor; XI, opposite V, shows love *received*, friendships, large goals; XII, opposite VI, indicates the work organization of the large other-world, reactions to the whole, the largest complications.—Let us study these next six Houses in more detail.

*House VII: partnership, marriage, relationships with the public.* House VII is the powerful Angular House opposite the Ascendant. As the western Cardinal point, it is a season of equal night and day. It is the phase of man's experience that begins his equal relationship with others . . . and *their* problems and benefits. The natural Sign of VII is Libra, and it offers the idea of balance between opposites. *VII is the Self's reception by others.*

The key word is definitely *partnership* and primarily includes the spouse in marriage. The Sign on the cusp of House VII can tell remarkably often the kind of person the identity attracts or marries. In the sense that opposites attract (actually complement), the Ascendant's style of self-projection finds its completion, its complement in House VII.—The Ascendant will show the identity's life point of view; VII will show the identity's point of view specifically about marriage, for example, and how this view is fulfilled in experience and received by others.

House VII is particularly sensitive in showing man's emergence into the public. Here can be read the nature of the "big break" into public acceptance—and as well: the opposition in any contest or trial; the open enemies to the Self.

VII is the second of VI; it *receives* the assimilation of the northwest quadrant that gained distribution in VI, through man's work situation, his activity with others to put forth his creative Self.

In developmental cycles, the essence, the light is given to others for reflection. The reflection stimulates further growth. Sunsets inspire.



*House VIII: others' resources, enlargement of viewpoint; life's mysteries including death, sex, and regeneration.* As the second House of VII, this House represents others' resources. The natural Sign for this House is Scorpio, ruled by Pluto and Mars, which brings several sensitive dimensions to VIII: the possibility of regeneration, through death of old ideas and the birth of new ones, through physical death and "rebirth." The benefit of an inheritance (opposite II) through another's death. The possibility of enlarged views from awareness regenerated through others or within the Self exposed to others (psychoanalysis). The possibility of occult interests through deep participation with the mysteries of life and death.

House VIII shows man's creativity gaining new birth through others. Old ideas fall away and gain new structure in this Succedent House.

The middle of VIII is midway between the two Cardinal points on the seventh and tenth cusps. Man is benefiting from public emergence and going forward to full acclaim on his own. In VIII, we read the experiences that revitalize life; perhaps hidden assets come to light, hidden feelings gain new form.

*House IX: the higher mind, foreign journeys, publication of ideas.* IX is a Cadent House, the natural House of Sagittarius. Its meanings lead to the next Cardinal point, the next angle at X, the Mid-Heaven. IX assimilates the public emergence of the Self at the angle on VII and the formation undergone in VIII. Opposite House

III, it holds the meaning of higher communication, the higher mind, which is the articulated consciousness of others and practical application of intelligence . . . intellect. A higher level of meaning and a longer range of significance are reached by the mental and explorative faculties within the Self.

IX carries meanings for the far-reaching mind, the far-traveling man. The laws and religions of society are seen within this House; they embrace man as he approaches the beginning of new light at X. Man at this point of experience is near his highest level of public communication. The ideas of the Self have been worked out and regenerated through contact with others. His views gain publication. His own views join the views of others.

*House X: public honor, the profession, the other parent.* House X is the fourth Angular House of the horoscope. It is the southern Cardinal point where light begins to increase over dark. The Self has fulfilled its drive to relate with the world through the profession. It has overcome the obstacles of relationship, enriched itself with the viewpoints of others and reacted to the highest thoughts of man, to gain a position that enjoys gradual increase of light throughout the rest of the life cycle.

As with every Cardinal point, every Angular House, there occurs a concretization of Self: birth (Ascendant); home security and new beginning (IV); entrance into public relationship (VII); and now, in X, professional honor, social honor.

X is the complement (opposite) of IV. The other parent is noted here, usually the parent of the same sex. In early Astrology, the father was linked with X, especially for sons, since the son usually followed in the father's footsteps professionally. Additionally, Capricorn, the Sign naturally placed upon the tenth cusp, is ruled by Saturn, the planetary symbol of the father. Cancer naturally on IV is ruled by the Moon, the symbol of the mother.—In modern times, this does not hold true functionally. As Dane Rudhyar writes: "These co-relations are interchangeable, according to the level of being at which one establishes itself. A co-relation which is true physiologically may have to be reversed at the psychological level. The mother may dominate the physical home (IV), but the father may form the psychological home: the soul."

In analysis, it is best not to suggest the gender when discussing the parents. Rather, simply describe the situation as you (will learn to) see it and establish through dialogue upon which parent it focuses. At the same time, as we shall see, if Saturn or the Moon is crucially involved, the gender of parent *is* most reliably determinable.

*House XI: friends, hopes, goals, love received.* XI is the second of X and consolidates the gain from X. Friends are made through the profession, further expression of the emerged Self is made through them. New, larger goals are set to receive the energies of full development. The secure professional seeks social position and stabilization.

The friends, the others, give love to the identity. House XI is the love received, complementing V, the love given.

It also includes in meaning stepchildren or the partner's creativity or sexuality . . . which again reflects back upon V as love received.

Quite reliably, the Sign upon House XI and the position of its planetary ruler within the horoscope indicate the kind of friends the person will have. It is the natural House of Aquarius. Where VII showed what kind of people one attracts, XI often shows the kind of people one chooses for friends. The difference here is sometimes very important.

*House XII: self-undoing, confinement, hidden enemies, large organizations, serious sickness.* House XII completes the full series. It is the close of experience before a new cycle begins. The natural House of Pisces is the accumulation of reactions within the whole cycle.—Remember the comparison of the Pisces and Aries symbols discussed in Volume I: Pisces has received all into awareness and assimilated it. The responsibility here in XII, a Cadent House, is for *man to react by accepting his completion*. Growth is full and complete, but the spirit tries to go on. The Self is identified in totality with the whole of society; the individual core can react in harmony or collapse under the pressure.

As a result, man bucks the limiting boundaries of his social level. Sickness can pervade the system (XII is opposite VI). The social world gives no further.

Confinement and frustration are felt. Vague enmity can arise.

Man's work has gone beyond the individual level and, in every sense of the word, he has become an organization man. He is assimilated to the utmost in society and feels the confines of the large work organization, the complex social organization of life.

House XII is Cadent, leading to the next angle, the Ascendant. As the cycle begins again, one life's works lead to show and projection in another. XII is accumulated Karma and new release.

We have seen the flow of Houses I through XII as the progression of one major cycle, one year of the Earth's orbit around the Sun (the full circle of apparent Sun movement), during which we see the Sun *exposed* to all the Signs in one year. The basic natural symbolism is one of seasons. In meanings for man, this symbolism echoes perfectly the famous message of Ecclesiastes 3:1-8: "To everything there is a season, and a time to every purpose under the heaven. A time to be born and a time to die. . . . A time to love and a time to hate; a time of war and a time of peace."

The order of Nature is total. The structure of the solar system is seen in the structure of the molecule. The macrocosm is reflected in the microcosm; as above, so below. The Earth's orbit is complemented by its rotation on its own axis. This daily axial rotation *exposes* the Earth to the entire vault of the Heavens, i.e., all the Signs, *in one day*. This is a cycle of exposure to man of a whole unit of

experience potential. This axial rotation determines the placement of Signs around the horoscope chart: each field of experience is exposed to man and gains a different potential in nature and mode for each person. With the establishment of his personal horizon through birth awareness, man takes a position within potentials.

Therefore, in analysis, we do *not* begin with the First House as birth and stop at XII. *The cycles repeat themselves.* The seasons come; the seasons go. *The year of the Sun is reflected within the day of man (Earth).*

In our basic theory of House symbolism, we have seen the crucial focus at each of the Angular Houses (the Cardinal points). In a sense, *man is reborn often during his lifetime:* he leaves his home to go to school to learn about his community and the world at six or seven; he becomes aware of maturity and ambition in adolescence at fourteen or fifteen; he enters the public formally with certain rights and expectations at twenty-one; he gains mature stature and professional direction at twenty-eight or twenty-nine; he makes changes and adjustments at thirty-five . . . then forty-two . . . and begins to plan retirement at sixty to sixty-five. That each stage seems to occur at intervals of seven years is no accident as we shall see when we study prediction techniques in a later volume. But *man is reborn often during his lifetime, his life cycle.* The Self is focused (a first House of a quadrant) and restructured (a second House) and reapplied (a third House) *in relation to each quadrant of his chart . . . often in more than one quadrant at the same time!* Every unit of experience in man's life

has a cycle of focusing, structuring, and communication. The Houses are constantly returning to prominence after momentary subsidence. House meanings overlap in speed of development and scope of application: like concentric rings of waves that appear when a still spring of water is brought to life, when its center is touched.

A good question in this early study of the Houses would be: "Why isn't House I, the Self, the home situation for the identity; why wait until House IV?"—In the dynamic sense, I is a home: it is the physical body, the home of the Self, the vitality, the thrust of newborn potentials. The first quadrant reflects the things that *embody* basic man: his physical form, his resources, and his first communication of Self in close family contact. *Then, when a new period (rebirth) begins in life, we look back to this first quadrant as it ascends to another level of meaning: I becomes a more dynamic show of Self, II becomes material resources that are accumulated and III brings form to ideas, farther-reaching expression of the Self. This ascendancy in meaning level continues in every quadrant at every new period of life development.*

It is in this dynamic raising of meaning levels that Astrology can say that House IV is not only the early home and one of the parents, but also the home country and perhaps feelings of patriotism, or the actual physical structure of the home early or late in life, or the closing period of life, i.e., when man has settled into his final home.—Astrologers abbreviate the House IV meaning in the final sense by saying it represents *the end of the matter*.

And, in the sense of dynamic levels of reading House meanings, as one thing ends early in life, another thing will begin. Thus IV is a House of *new beginnings*.

In House VII and its quadrant, our abbreviated meaning states: partnership, marriage, relationships with the public. For a child, VII is his playmates; for the adolescent: his girlfriend or her boyfriend, schoolfriends; for the adult: the spouse, the doctor, the astrologer, lawyer, opponent, a thief, enemies, etc. With the rise in meaning and development levels in the Angular Houses, the next two Houses in each quadrant rise accordingly in their structuring and disseminating functions.

In House X, similarly, we need not wait for a profession to utilize its meanings: for the child, X describes a parent; for the young adult: the employer, early honors, having a baby (having fulfilled a primal self-function); for the fully matured adult: the profession, social honor, scandal, etc.

The meanings are endless, but *the meanings are organized to levels of experience potential at specific periods in life*. Man is for all seasons.



## 12

# Signs and Cusps

In Volume I of this series, *Horoscope Construction*, we studied how to calculate the Sidereal Time of birth and determine the Signs on the cusps of the twelve Houses using the *Tables of Houses*. Through the Earth's rotation on its axis, a particular degree of a Sign will be upon the horizon as seen from the birthplace at the birth-time. The Signs then take their position around the circle from the Ascendant, and a blending begins between Sign meaning and House meaning.

This is the beginning of synthesis in analysis. We blend the Sun-Sign and the Ascendant; we blend the cusp Sign and the House meaning. This is the beginning of the bloom of individual identity seen through experience. *Each field of experience gains a different potential in nature and mode for each person.* A practiced astrologer can tell much from the cusp Signs alone (the Signs on each House). He would synthesize in quite *general* terms the Zodiacal Sign on the cusp and the meaning of the particular House. Here in very brief outline form is how he might proceed.

(Preliminary note: the meanings that follow are valid possibilities, but they are open to broad modifications from the planets and configurations throughout the horoscope. Proceed carefully and build *understanding*.)



- ♃ on I: Energetic, impulsive, perhaps reckless show of Self. Direct presentation. Vital.
- ♃ on II: Money may burn a hole in the pocket. Impatience when personal investment meets with delay. Takes risks with resources.
- ♃ on III: Restlessness and impatience. Communication too swift to absorb details.
- ♃ on IV: Possible bombastic home life, maybe conflagration. Perhaps great patriotism.
- ♃ on V: Reckless speculation. Ardent. Possibly passions are uncontrolled.
- ♃ on VI: Much work energy; perhaps too much work. Fevers, accidents; perhaps head injuries, sinusitis.
- ♃ on VII: Possible impulsive marriage. Powerful mate. Perhaps a belligerent show to the public. The need to prove the Self, to press the Self upon others.
- ♃ on VIII: Misspends the resources of others. Personal energy overrules benefits of relationship. Accidents can cause death.

- ♄ on IX: The individual overrules group thought, religion, laws. Public expression through impulse. Drive to be heard.
- ♄ on X: Engineering or mechanical profession possible. Militance.
- ♄ on XI: Assertive friends. Social quarrels. Demands devotion of others.
- ♄ on XII: Bucks the organization. Haste and thrust bring confinement of energies. Society catches up with him.

Again, we must caution that these *possibilities* must not be taken as absolute. For example: Aries is ruled by Mars, and the position of Mars within the horoscope *will condition the meanings in terms of the House where Mars is located*. Again we will see a blend, a synthesis.—There are many, many variables within every horoscope. In chapter 5 we will study the planets *in* the Houses, and the variables will become one step clearer. In Volume III, we will present the full spectrum of interrelationships among planets, Signs, and Houses. These brief listings provide 144 indications of how House meanings *begin to come to life*. With Aries, we saw the Cardinal mode of the Fire Family energy brought to each House and its meaning. With Taurus, a Fixed Sign in the Earth Family, the registration will be quite different. Remember the descriptions of the Signs (Volume I). Try to anticipate the possible meanings that follow.—Taurus consolidates for security.



- ♉ on I: Strong stocky build. Possibly selfish in wanting things one's own way. Belligerent when provoked. Stubborn.
- ♉ on II: Determination to make money. Perhaps not too generous with resources.
- ♉ on III: Set in opinions. Stays put. Appreciates aesthetic communication.
- ♉ on IV: Stable, solid home is valued.
- ♉ on V: Earthy sex drive. Indulgent of Self. Alert to financial speculation, though very cautious. Possible art outlet.
- ♉ on VI: Reliable, loyal worker. Sickness may occur most often in the throat. Temper.
- ♉ on VII: Possible stubborn marriage partner. Harmony follows respect.
- ♉ on VIII: Gain through partner's resources, though not without difficulty in getting those resources.
- ♉ on IX: Set in religious and philosophic views. Appreciates dogma.
- ♉ on X: Often an "earth" profession. Administers business structure well. Order preserves stature. The arts.
- ♉ on XI: Wants to organize friends for own behalf. Possibly very aesthetic or wealthy friends.
- ♉ on XII: Possessions or frustrated emotions can get the upper hand and lose the spirit.

Gemini is a Mutable Sign in the Air Family. The meanings of diversity, social communication, and flexibility may be given to the Houses where Gemini appears.



- ♊ on I: High-strung, bright; wiry build; word facility. Many interests. Humor through mimicry. Restless.
- ♊ on II: More than one source of money. Immediate family may be involved financially.
- ♊ on III: Details. Communication alert and facile. Excellent correspondent. Possible language skill.
- ♊ on IV: More than one home, often at the same time. Immediate family (relatives) in the home.
- ♊ on V: More than one love affair. Writes of love. Relatives may be involved in sexual exploration. Speculation in many different directions at the same time. Theatrical through glibness.
- ♊ on VI: Many changes in work situation; hobbies important. Intellectual work preferred. The professional critic. Possible lung problems; arms, hands.
- ♊ on VII: Probability of more than one marriage. Difficulty forming public opinions.

Partnerships change. Difficulty following things through.

- ♊ on VIII: Mental preoccupation with morbidity; difficulty coping with the spiritual. Occult investigator.
- ♊ on IX: Difficulty choosing basic principles. Much travel. Foreign ideas sought as answers.
- ♊ on X: More than one profession likely. Writing possible. In business with near relatives.
- ♊ on XI: Clever friends, possibly literary friends. Expects applause from others.
- ♊ on XII: Communications frustrated or work only through large organizations. Chronic nervous problems. Deep curiosity about afterlife.

As a Mutable Sign, Gemini offers a diversified kind of *reaction* to experience. The position and condition of the ruling planet Mercury is particularly important. Favorably placed in the horoscope, for example, Mercury would mitigate much of the possible sickness significances of Gemini on Houses VI or XII. Similarly, Mercury poorly positioned somewhere in the horoscope would bring many of the "negative" meanings to focus in whichever House was marked by Gemini. If Gemini were on III, for example, with Mercury debilitated in the horoscope, the promise of alert and facile communication would be altered drastically, perhaps to nervous stammering.

With Cancer, we have another Cardinal Sign: we would expect specifically active energy. Cancer is a

Cardinal Sign of the Water Family: the energy would have most to do with emotions and home security.



- ☉ on I: Sensitive body. Emotions seeking audience. Security sought; hindrances pushed aside and overlooked.
- ☉ on II: Resources emotionally charged. Home investment important. Real estate. Security.
- ☉ on III: Emotionally communicative. Possibly enigmatic. Emotional ties with kin important.
- ☉ on IV: Home life very important. Parental attachments.
- ☉ on V: Love of children. Emotions unlock creativity. Highly impressionable.
- ☉ on VI: Possible diet or stomach problems. Changes in job situation. Dissatisfaction or pleasure with work on an emotional basis.
- ☉ on VII: Wants to be popular. Emotional mate sought. Own emotions need understanding.
- ☉ on VIII: Interested in finding emotionally kindred spirits. Involved with the home after life, higher levels of gratification.
- ☉ on IX: Religious, moralistic, philosophical; foreign home.
- ☉ on X: Possibly works from the home. Sensitivity about showing emotions publicly. Nurse.

♋ on XI: Family friends. Home celebration.

♋ on XII: Home or emotions bring sorrow. Sickness in the home. The nurse.

Leo is a Fixed Sign of the Fire Family. Leo will bring an accentuation of Self, a self-favoritism, and reigning nature to the Houses.

## ♌

♌ on I: Usually popular. Position of the Self very important. Winner.

♌ on II: Money earned from special activity of the Self.

♌ on III: Ambitious; kingly in communication.

♌ on IV: Regal entertainment from the home. The home is the castle. Early favorite.

♌ on V: Loves those who love in return. Real love possible. Excellent with children. Enthusiastic speculator. Team captain. The theatre.

♌ on VI: Self-reliant in work. Reliable. Possible overwork. When problematic, heart suffers.

♌ on VII: Possibly noble partner. Unusual projection of Self to the public. Winner.

♌ on VIII: Seeks control of the other's money. Generous when the Self is appreciated.

♌ on IX: Idealist. Seeks the Sun in travel and thought.



- ♈ on X: Leadership in profession is successful. The feeling that stubbornness and self-reliance have paid off. The president. Theatre.
- ♈ on XI: Generous friends. Unusual Self attracts love and endorsement. Friendship very important. Famous friends.
- ♈ on XII: Overlooked details hurt the structure. Energies wasted. Sorrow through love, children, or speculation.

Virgo is a Mutable Sign of the Earth Family. Discriminatory reactions are brought to the assimilation and communication of House meanings. Idealistic discrimination is the reaction to experiences.

### ♍












- ♍ on I: Sensitive body and nervous system. Stickler for details. Ideal seldom found. Frustration possible. Resents or responds well to leadership by others.
- ♍ on II: Exact, careful, and practically creative with money.
- ♍ on III: The born critic. The editor, proofreader. Self-correcting.
- ♍ on IV: Neat, ordered home. Work possibly in the home.
- ♍ on V: Analysis of emotions cools passion and delays fulfillment.

- ♁** on VI: Excellent work habits, with details especially. Diet very important. Fastidiousness.
- ♁** on VII: Possibly works with or for partner. Invites opinions of others to analyze for Self.
- ♁** on VIII: Practical with others' monies. When deeply stimulated, analytic mind applied to the occult and mysteries of life. Through careful thought, many ideas about religion, education, philosophy. Seeks the practical applications.
- ♁** on X: Teaching profession possible. Communication of details. Very flexible.
- ♁** on XI: Works with or among friends. Social orientation. Seeks carefully defined love response from others.
- ♁** on XII: Possible chronic illness, deep frustration from job. Interest in organizational problems.

Libra is a Cardinal Sign of the Air Family. Here, the accentuation will be upon the social, the striving for balance within relationships to give the Ego emphasis and support.



- ♁** on I: Refined physical form. Needs the social mirror. Possibly unusually creative.

-  on II: Money bound up within a partnership.
-  on III: Happy among relatives. Seeks balance among opinions.
-  on IV: Aesthetic sense communicated within the home. Harmony or upset.
-  on V: Diverse love attachments. Aesthetic creativity, flair.
-  on VI: Social job. Harmonious work relationship. Possibly Ego too assertive, invites criticism. Sickness with lower back, kidneys.
-  on VII: Pleasant, attractive mate. Easygoing, balanced social poise as long as the Self is recognized clearly.
-  on VIII: Gain through partnership. Peaceful approach to life's mysteries and end.
-  on IX: Idealized concept of justice. Relaxed view of man's social order. Humanitarian.
-  on X: Possible artistic profession. Earns social applause.
-  on XI: Artistic friends. Social ideals. Perhaps marriage to a friend.
-  on XII: Possible secret marriage. Marriage problems. Hurt by social injustice or personal philosophic problems.

Scorpio is a Fixed Sign of the Water Family, bringing meanings of stolid emotionalism, mystery, and regeneration to the Houses.



- ♁ on I: Square, strong figure. Inscrutable. Great endurance. Covers up emotion.
- ♁ on II: Secretive about finances. Will use resources to prove a point or overcome an opponent.
- ♁ on III: Satirical in communication, acute in perception. Difficulties with close relatives.
- ♁ on IV: Possibly a dark past. Stress in home life. One parent particularly inscrutable.
- ♁ on V: High sexual interest. Either disciplined or without self-control. Real love frees the spirit.
- ♁ on VI: Secret or occult work. Problems hidden. Possible sickness in reproductive organs or throat. Anxieties repressed.
- ♁ on VII: Marriage very private. Stubborn presentation of Self.
- ♁ on VIII: Emphasis on the occult for private reward. Secretive with other's resources. Deep changes possible.
- ♁ on IX: Private ideas about religion and justice on a different plane. Occult dimension important.
- ♁ on X: Secret work for profession. Research.
- ♁ on XI: Very special friends. Deep love needed.

**♃** on XII: Self accumulates secret enemies. Fascination with the mysteries of life. Opportunities locked out. Deepest theories and opinions fight all the harder.

Sagittarius is a Mutable Sign of the Fire Family. Dimensions of idealism, restlessness, and vital thrust will be brought to the Houses.



- ♐** on I: Lanky, well-proportioned body. Enthusiasm. The press of personal views and energies.
- ♐** on II: Often good luck with money. Gambles. Sometimes selfish or superficial.
- ♐** on III: Legal mind. Impulsive with opinions. Rapid communication.
- ♐** on IV: Pride of home and family. Changes of home and country. Enjoys finery.
- ♐** on V: Interest in sports. Idealistic in love. Fond of pleasure and speculation.
- ♐** on VI: Pride in work. Air of superiority within work conditions. Religious or philosophical work or service. Liable to bronchial sickness or injury to upper legs and hips.
- ♐** on VII: Enthusiasm brings popularity. Partner much loved by others. Possibility of more

than one partnership or marriage. The hunt is more important than the catch.

- ♄ on VIII: Gain through the partner or through inheritance. Philosophical enrichment sought through study.
- ♄ on IX: Religious . . . often devout. Idealistic. Travel important and rewarding.
- ♄ on X: Profession could be law, religion, or higher education, publishing. Ideas important. Social acceptance needed. Leader through inspiration.
- ♄ on XI: Philanthropy. Bright friends. The mind important in love hoped for.
- ♄ on XII: Philanthropic efforts misunderstood or not appreciated. Bafflement. Enthusiasm weakened. Chronic asthma possible.

Capricorn is the last Cardinal Sign of the circle. Again, we can anticipate a specialized active mode of energy presentation. Capricorn is in the Earth Family: the nature of the energy would be administrative, practical, persevering. Saturn, the ruler of Capricorn, contributes dimensions of conservatism and delay. Saturn is *time* and ambition.



- ♄ on I: Bony figure, lean. Old before one's time. Appears younger with age. Often appears turned inward with private difficulties.

Coldness and reserve prepare the Self for the right time for show.

♁ on II: Earthy ambition for money. Good saver. Perhaps works with the father.

♁ on III: Cautious communicator. Near family helps with ambition.

♁ on IV: Possible restrictive, difficult home life, through the father particularly, which becomes motivation for success.

♁ on V: Highly sexed with cold exterior. Ambition sometimes aided through children. Matter-of-fact attitude in speculation wins over gambling.



♁ on VI: Hard worker. Disciplined. Efficiency expert. Possible government employ. Sickness with knees, skin or stomach.

♁ on VII: Late marriage. Possible domineering partner; professional partner. Shows hard exterior, but emotions are very close to the surface.

♁ on VIII: Careful with partner's money. Longevity. Archaeological interest to establish answers for life.







♁ on IX: Religious convention. Ministerial literalness possible. Fair, legal, and administrative mind.

♁ on X: Government position likely. Seeks and administers responsibility well. Archaeology. Patience endures for long-range success. The administrator.

-  on XI: Ambitious friends. Needs much love.
-  on XII: Ambitions frustrated. Patience exhausted. Institutions take over the need to be individualistically executive.


Aquarius is the last Fixed Sign of the circle and is in the Air Family. Steadfast, unique, unusual social projection would be made upon society at large. There would be a spirit of invention and a suddenness of appearance in this energy as expressed through the Houses.





-  on I: Positivism. Sudden impulse either charms and improves situations or antagonizes and debilitates. There is a brightness within the Self. The avant-garde. Extremely alert and innovative.
-  on II: Money made from social or government organizations. Unique plans made for use of resources. Sudden spender.
-  on III: The mentalist. Bright communications. Unusual turns of phrase. Sudden trips.
-  on IV: Much gained from unique family life and/or elders.
-  on V: High sexual energy, probably unusual. Friends as lovers. Too innovative for luck with speculation. Unusual children.
-  on VI: Wants work conditions own way and





inspires organization to back it up. Ankles or heart can weaken under accelerated activity. Stroke.


 on VII: Highly unusual mate. Humanitarianism shown through Self or partner.

 on VIII: Occult interest. Reckless use of partner's monies; exploitation of others.

 on IX: Unique travel desires and experiences. Friends and ideas gained through exploration. Humanitarian philosophies. Sudden inspiration.


 on X: Professional interest in society or groups. Humanitarian. Job through a friend. Innovative leader. Inventor.

 on XI: Unusual friends. Unusual love attention expected. Mental attachments.

 on XII: Organized humanitarian institutions. Restraints frustrate individualism. Aid to troubled friends. Unique personality expression goes off the track.

Pisces is the last Mutable Sign in the circle and belongs to the Water Family. Here is receptivity, reaction to emotional stimuli.



 on I: Sensitive, supple figure. Kindness exuded. Moodiness to receive or wander. Aloneness often preferred.

- ♃ on II: Finances have difficulty working out. Several ways tried.
- ♃ on III: Receptivity. The medium. Music. Travel to get away from things.
- ♃ on IV: Sorrows in the home strengthen the spirit. Patience and trial adjust goals to a lower level.
- ♃ on V: Expansive emotional love. Impressionable. Several loves and several children likely. Creative.
- ♃ on VI: Needs leadership in bringing out ideas in work or service. Socially touchy. Nervous-emotional reactions. Feet problems, diet, allergies.
- ♃ on VII: Difficulty finding the marriage partner who will help promote the Self. Highly sensitive value judgments established in partnerships and in public position.
- ♃ on VIII: Psychic inclinations. Intuition. Concern and upset about partner's money.
- ♃ on IX: High religious sense. Vision. Long sea voyages. Love of the water. Symbolism important in all understanding.
- ♃ on X: More than one profession likely. Visionary dimension supports achievement. May lack practicality. Music.
- ♃ on XI: Friends of high sensitivity. Frustration with hopes and goals. Difficulty forming objectives.

♋ on XII: Aloneness will enrich or depress. The “fight” is easily given up. Thrust of Self weakens, unless the audience gives special forum to the personal efforts.

*Modification.* As you study these *possibilities*, keep the circle of Houses with their *natural* Signs in mind (page 8). Rotate the wheel mentally as you study each Sign on each House. Always note the Sign and House *opposite* the Sign and House you are studying. The full *complement* of meanings will manifest in the possible meaning.—Second: keep in mind the *Ascendant* possibility as you mentally rotate the Signs. The Ascendant potential will also be reflected in the synthesis, in your understanding of the emergent traits. Begin with the easiest relationship: any Sign on House XII has the *next* Sign, in order around the Zodiac, on I, the Ascendant.<sup>1</sup> Read some of the descriptions over again with this in mind. Try to blend the two: for example, a frustration in XII seems to usher in a fresh approach at the Ascendant, a new “attack” upon the process of development.

Go further with these relationships: Cancer on IX would put Scorpio on the Ascendant more often than not. The relationship between IX and I would be very harmonious. Usually *both Signs will be of the same Element Family*. In this example, the Scorpio Ascendant and its meanings for the higher levels of the spirit would be

1. Except in the case of Sign interception when the Sign on XII could be repeated upon the Ascendant.












freed by the Cardinal Sign of the Water family, Cancer, on IX: into realms of the higher mind. The synthesis gives us: Cancer on IX: religious, moralistic, philosophical.

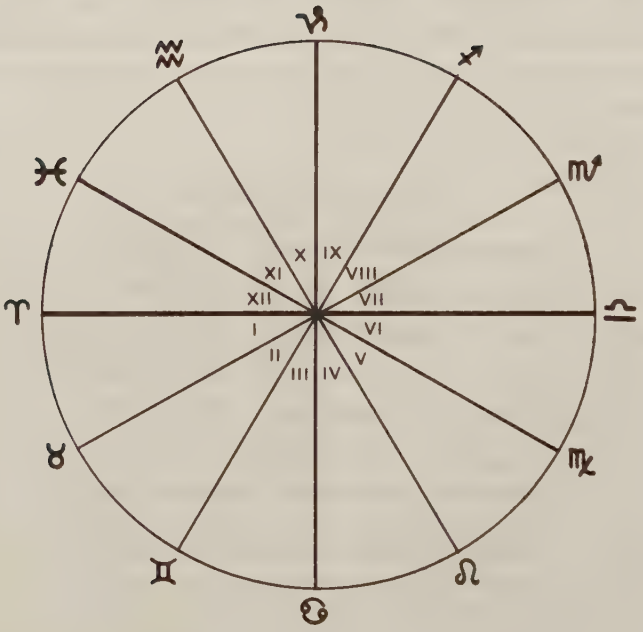
On page 45 we see this possibility: Libra on V: diverse love attachments; aesthetic creativity, flair. With Libra on V, Gemini is usually on the Ascendant. Again, both are Signs of the same family, the Air Family, and the energy would flow very easily: the diversity of Gemini and the social needs of Libra would combine with the creative, love, and theatrical outlets of V to give us our possible meanings. The Sign opposite Libra, Aries, would give us an indication of Ego strength within the synthesis.—If, because of interception, Cancer were on the Ascendant with Libra on V, the sense of home and emotional security would be introduced to mitigate the dimension of diversity. The energy would be more settled and more dynamic because Cancer and Libra are two Cardinal Signs within the I-V relationship.

At first, the reasoning may seem complicated. But it is only unfamiliar. With the horoscope examples in the following chapters, House readings will be kept simple . . . almost blunt. Refinements will come easily with experience. The great lure of Astrology is that the possibilities for symbol interpretation are limitless. In his study, the astrologer identifies with countless levels of psychology and experience; he himself grows in his service to others.

The family groupings of the Signs by element and mode are an indispensable aid to understanding all of Astrology and the interrelationships of the Houses. This

was introduced in Volume I and will be greatly expanded in Volume III. It is vitally important. We repeat below the key diagram that organizes all the Signs by family and mode. Memorize this diagram and the *seasonal* relationships within the natural circle of Signs and Houses (page 56). It is your key to growth with astrological technique.

|       | Cardinal  | Fixed   | Mutable   |
|-------|---|---|---|
| Fire  |    |    |    |
| Air   |    |    |    |
| Water |    |    |    |
| Earth |  |  |  |



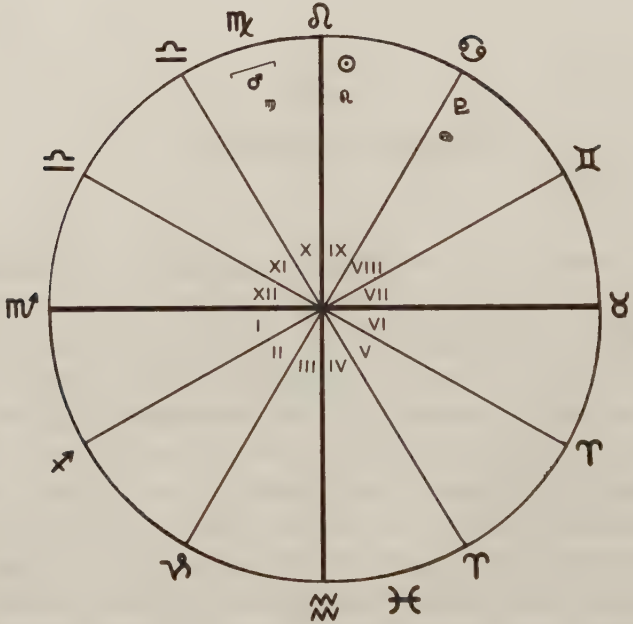
Signs Natural to the Houses

## 13

# Cusps in Analysis

By now, you have probably applied the Sign-House combinations to your own horoscope. You have found many descriptions to be accurate and a few that do not seem to apply. Reinforcement of the descriptions that do apply and explanation of the descriptions that do not apply immediately are found *through study of the planet ruling the particular Sign on any House and the planets positioned within the House*. This is the bloom of individual differences. It is another step higher in astrological synthesis. When you felt yourself *pushing* the possible meanings to make them fit, your mind was actually anticipating the planetary “push” that can occur in the complete horoscope.—Even a mighty push might not make some of the possibilities apply, which is all the more reason to expect quite a powerful modification through the ruling planet. For example: if you have a Sagittarius Ascendant and are anything but lean and lanky, the chances are extremely good that the ruling planet of Sagittarius, Jupiter, is powerfully positioned somewhere else in the horoscope in a Sign quite dissimilar to

Cuspal Arrangement Example 1  
 Jacqueline Kennedy Onassis



July 28, 1929  
 2:30 PM, DST  
 Southampton, NY  
 40 N – 72 W

[Source: Moore]



Sagittarius. If Jupiter were prominent in Virgo, your appearance might become smallish, small-featured—but you might admire the tall, slender types around you!

This chapter and the next develop the House significances further by introducing examples of House cusps and more complete horoscopes of well-known individuals and a few of the planetary modifications.

In the cuspal arrangement of Jacqueline Kennedy Onassis' horoscope, example 1 (page 58), we see a Leo Sun with a Scorpio Ascendant. The Sun in Leo is powerful indeed and gives a reigning, queenly thrust to the life-energy. In House IX, it would illuminate experiences involving foreign travel, higher education, publication, philosophy. The Scorpio Ascendant would bring other special dimensions to this Sun-Sign energy: mystery, matters of death, afterlife, partner's resources, an inscrutable factor in self-presentation.

Each of the four angles, the Cardinal points, has a Fixed Sign on the cusp: Scorpio, Aquarius, Taurus, and Leo. The points of crystallization and focus of her identity, as she develops in life, would be stolid, unyielding, stubborn. The will of the Leo in such a configuration would be reinforced enormously.

Leo is on X: the House of public honor; the public showing of the queen. Mrs. Onassis is not an active professional, but sets style and is a leader in everything she does. Her will is rewarded handsomely by public adulation. Virgo is intercepted in House X; the meanings of this Sign

must be assimilated into the meanings of X as well: a measure of flexibility is added to her stature and an extreme focus upon details.

Aquarius on House IV would suggest much gain from unique family life. With Pisces intercepted: sorrows in the home life strengthen the spirit. Not only does this synthesis describe her early home life and her divorced parents but the tragedy in her own family as well.

Libra on XI and XII reflects her many artistic friends, her social ideals; perhaps some problems within her marriage and the hurt of the public's unjust hounding of her and her efforts to renew her own life. The philosophical trauma must have been very difficult for her.

Aries on V and VI shows her enthusiasm for young people, sports, and perhaps her own private nature; and the intense application of Self to work and service, her disruptive relationships with servants, employees.

With Cancer on IX, we find an indication of her religious and moralistic disposition. With the Sun there, this House becomes very important and again we can appreciate the grand, noble management of her first husband's assassination, funeral, and the higher thought she needed to assimilate the catastrophe. Additionally, home security possibly would be found in a foreign country.—Capricorn on III would suggest a cautious or reluctant attitude toward communication. This polarity between III and the important House IX certainly was seen in the large publishing dispute between the then Mrs. Kennedy and William Manchester.

Sagittarius on II would suggest her good fortune with

money and her philanthropic contributions. Gemini on VIII would open the door to morbid preoccupations, the working of Fate through others that surely made many years of her life difficult; and multiple sources of income through others.

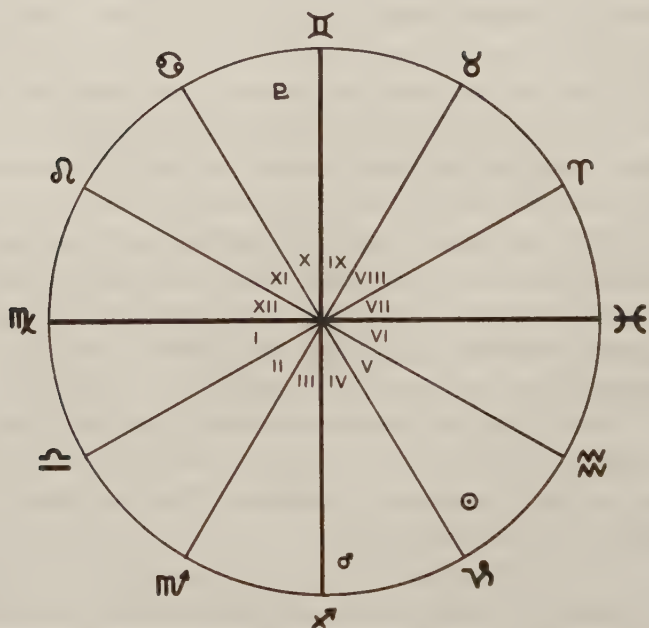
Scorpio on the Ascendant does not fit Mrs. Onassis in body structure. We look to the ruling planet(s). The ruling planet Mars is powerfully placed high in the horoscope in Virgo in House X. *The ruling planet of a House, when placed in an angle, becomes exceptionally strong.* Her physical form reflects more of Virgo than it does of Scorpio. Pluto, the other ruler of Scorpio, is in Cancer, and complements the figure structure as well, with the round Cancerian face, the need to diet often.

Scorpiconic influences remain for the levels of Self and psychology. They describe the strength within death trauma and the resting place of her identity. Mrs. Onassis lives on the Isle of Skorpios.

With a female horoscope, the astrologer must adjust meanings somewhat. Quite often, the female will not be professionally employed. The ways in which a housewife can express herself fully can be limited. Times are changing, and women are gaining more stature and public Self exposure than ever before. This must be kept in mind. House X becomes public honor more than profession. Often, House X activation occurs coincidentally with the birth of a baby: the mother has fulfilled herself fundamentally.—A powerful House II or House VIII might enable the wife to take over management of family

# Cuspal Arrangement Example 2

Richard M. Nixon



January 9, 1913  
9:44 PM, PST  
Yorba Linda, CA  
117 W – 33 N

[Source: Doane]

finance. Her House V will be especially strong because of her work with children and the sexual focus upon the female.—In Mrs. Onassis' horoscope outline, we see a large fulfillment of Self potentials as shown in the cuspal arrangement. Famous people customarily fulfill much more of their horoscopes than people at an average station in life: they have more opportunity, and opportunity breeds further opportunity. As the process grows, more facets of the Self are called upon to preserve the structure. More is revealed and more is used.

On page 62 is our second example of cuspal arrangement in the horoscope of President Nixon. The blend of the Sun in Capricorn and the Virgo Ascendant do describe President Nixon's wiry, dark, inwardly turned appearance. Virgo on the Ascendant, House I, corroborates the Capricorn administration through management of details, a dedication to precision in the name of an ideal. Pisces opposite the Ascendant upon House VII would show his need for a particularly receptive mate to appreciate the intensely detailed personal ambition.—Mrs. Nixon is a Pisces.

Gemini on X would suggest more than one profession. Mr. Nixon was a lawyer before he became a politician. He returned to law when he left politics during 1960 to 1967 and also wrote about his experiences in *Six Crises*. Sagittarius on IV corroborates his pride of early beginnings and family, which so often appears in his speeches. At a very high level of symbolic interpretation, Mr. Nixon's projection of home, by virtue of his public

position, is to the world at large. Sagittarius (natural Sign of IX) carries with it international overtones indeed.

Capricorn on V suggests the cold exterior observed almost daily by writers in the public media. His realism in planning certainly has established his political speculation skill.—Cancer on XI indicates the family-and-friends privacy Mr. Nixon prefers within his home . . . and the White House receptions as well.

Aquarius on VI shows that Mr. Nixon wants work conditions precisely his own way and can inspire whole organizations to back him up. Leo on XII suggests that overlooked details can hurt the structure. Perhaps this is yet to be seen dramatically (Leo).

Libra on II would show his personal resources tied up in partnership. At the level of president, the relationship is the public trust. Aries upon VIII: there is the possibility that he can misspend the resources of others . . . abuse public monies or the energies of the people believing in him or helping him. Such activity would overrule any previous benefit from the relationship.

Scorpio on III can be seen in Mr. Nixon's celebrated satirical remarks about persecution by the press and the inscrutability of many of his communications. At the same time, he characteristically claims emotional involvement with his communications and offers emotional bases for many of his opinions. There seems to be confusion here. When we look to the rulers of Scorpio, Mars and Pluto, we see that they oppose one another and center this confusion within his professional position (X) and his home(land), IV.

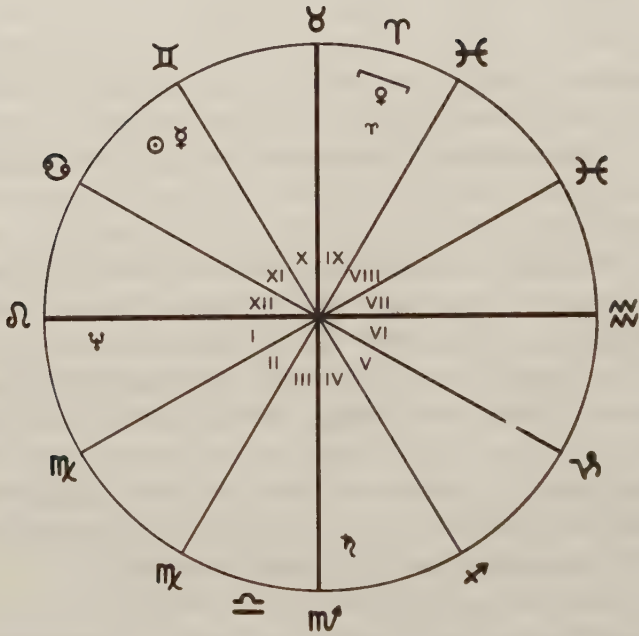
Mr. Nixon's horoscope is extremely powerful and will be studied in detail when we study methods of prediction in a later volume.

In the cuspal arrangement of Marilyn Monroe's horoscope, example 3 (page 66), the Gemini Sun would give a basic life-energy of restlessness, duality, curiosity, and communication. Blended with the Leo Ascendant, this energy gains dramatic structure, theatricality, queenly stature.

The Leo Ascendant corroborates Marilyn Monroe's large head and impressive mane of blonded hair as well as her popularity and the winning deployment of the Self energies. Aquarius on VII describes her marriages to highly individual men (Joe DiMaggio, Arthur Miller), and would also include her leading men with whom she made films. The duality of the life-energy is reflected in the plural marriages as well (there was a third, earlier marriage). Her public presentation would be unusual, innovative.

Aries intercepted in IX shows her public expression through impulse and efforts to understand higher thought and philosophies. Libra intercepted in III would help her balance opinions presented to her (reactant Gemini). She was surely more level-headed than motion-picture studio publicity led the public to believe.—Pisces is also on IX and Virgo on III. These Signs could fill out further the possible meanings of these Houses in her life: a high religious sense, love of the water, etc. We do not know about this part of her private life. But we could doubt this because the ruler of Pisces, Neptune, is in Leo in House I. Perhaps this

Cuspal Arrangement Example 3  
 Marilyn Monroe



June 1, 1926  
 9:09 AM, PST  
 Los Angeles, CA  
 34 N - 118 W



Gemini had too little time for higher-mind development, so consuming was the demand for professional charade. At a lower level, she surely was influenced by her dreams and nervous intuitions.—Virgo on III does show her outspoken critical views, voiced late in her career.

Taurus on X would show a very highly structured professional position. Yet, we heard so much about her delays, her indecisions (Virgo on III?), that we must look to Venus, the ruler of Taurus. Venus is in House IX in Aries. We will see in Volume III of this series that Venus in Aries can mean the tease.—All of this combined with the Gemini life-energy and the Ascendant's theatrical show indicates *the personality taken away from the Self and projected to the public*. Perhaps Marilyn fretted about not having any time to herself, to be able to structure her own position as she thought it should be presented. Perhaps she sought this improvement of Self through her marriages.—Scorpio on IV might be the key to the whole situation, the overbalance of the theatrical Self, the changed name and appearance: the possibility of a dark past, stress in the home life. It became known in her life story that Marilyn's home life was insecure indeed: abandoned by the father (and Saturn is in House IV) and a traumatic sex violation at an early age.

Gemini on XI describes her literary friends (one of whom she married: Aquarius on VII, the natural Sign of XI) and the expectation of applause from others. This is the House illuminated by the Sun. Sagittarius on V: a pride in her work, a projection of her sex appeal upon the public.

Cancer on XII: again a corroboration of the House IV problem . . . sorrows in the home, sickness; and perhaps the great need for home security and its frustration that finally drove her to her own self-undoing (XII). Capricorn on VI: hard worker, disciplined. Again, this contradicts public knowledge. The ruler Saturn must modify the observation. Saturn is in IV, as we have seen. Again, the home situation, the trauma, the father image, and the sexual stress are seen. Was this her "sickness"?

Virgo on II would suggest that she was careful and exact with her money, practically creative with her resources. This may have been true about her material resources; we don't know. It surely applies to the Second House of a public performer and her creative use of her image. But the ruler Mercury is with the Sun in XI. The chances are very good that her monies were turned over to her friends and/or husband(s) for their management.

This third example is more complicated than the first two. The objective in using Marilyn Monroe's horoscope was to show exceptions to the rules. We find more of them here than we do in the horoscopes of Mrs. Onassis and Mr. Nixon. Miss Monroe's horoscope is much more demanding of careful, thorough analysis to complete the picture. But the exceptions to the rules begin to show overcompensations in the horoscope, the overbalances that create highly individualistic behavior. *These overcompensations are not essential to individuality*, but often they take the place of full, thorough self-development. A part overbalances the whole. The

horoscope gets out of focus. The life reflects this. Marilyn Monroe was found dead at her home, judged suicide, on August 5, 1962, aged 36.

Hitler had Leo on X, with the Sun in Taurus in VII. His projection of Self to the public through his profession was one of a king, an emperor. Saturn was in X as well, reinforcing this ambition dramatically.—But Hitler had a Libra Ascendant! One would hardly suspect such imbalanced behavior to have come from the refinement and social needs signified by Libra on the Ascendant. But the Libra ruler, Venus, was exactly with Mars in VII (House of the public) and in very difficult square relationship to Saturn in X (public honor, the profession). In other words, the need for the social mirror was twisted out of shape by the position of the Ascendant's ruler and its interaction with other planets. Personal ambition took over in the name of the supporting public. The balance was upset.—Again, an exception to the rule discloses a dynamic configuration.

The Duke of Windsor's horoscope shows an interesting analysis: his Cancer Sun was in House V with Gemini on the fifth cusp. His life-energy would seek home security. His love life would be highly illuminated. He had two loves: his country and a woman. Leo, ruled by the Sun, was on VII, the public. The ruler of Cancer (where we find the Sun) is the Moon, and the Moon was located in House I. The Duke was torn between public and Self to express his devotion.—That he chose marriage and abdication is indicated by Mars also in House I (accentuating the Self) in dynamic, disruptive relationship

with the Sun at the heart of the problem. (Hitler's and the Duke's horoscopes appear in chapter 5, but try to picture the cuspal arrangement and the few planetary positions in your mind before turning to the horoscope drawings.)

Individual horoscopes can have the same cuspal arrangement. There are only twelve different Signs and the probability of pattern duplication is high. But, as we have seen, interception can occur and "double up" Sign appearances upon the Houses; the probability of sameness between horoscopes diminishes. We have the Sun-Sign blend with the Ascendant: the probability becomes far lower. Then with the introduction of the planets and their positions within the Houses, the probability decreases almost totally. Complex individuality evolves.

There are points of similarity, reinforcement, upset, and antagonism between horoscopes, between individuals. The variables of Signs, Houses and planets are what create individuality; the variables are also what bring people together.

## 14

# Planets Live in Houses

For the ancients, the planets were the fiery gods. The planets were observed through clear skies from flat plains. They shone brightly and dramatically; they were man's only light besides fire. Their courses were mapped against the projected Zodiac. The correspondences between planet positions and human behavior and natural phenomena on Earth were recorded and analyzed for millennia.

In the horoscope, the zodiacal divisions become fields of experience for man on Earth. The planets still traverse these divisions. Wherever they are found among the Houses, their theorized characteristics are registered in man's experience, much as a guest brings influence to his host's home.

In Volume III of this series, we will study the planets' relationships with the Signs and with each other. In this volume, as introduction, we will study the modifications of experience symbolized by a planet in a House.

We have learned key words to describe the Sun, Moon, and the planets.

|         |   |   |
|---------|---|---|
| Sun     | ☉ | Life-energy; ruler of Leo ♌   |
| Moon    | ☾ | Symbol of the personality's form; ruler of Cancer ♋                                   |
| Mercury | ☿ | Fleetness, diversity, intelligence; ruler of Gemini ♊ and Virgo ♍                     |
| Venus   | ♀ | Aesthetic, comfort, beauty, social desire, possessions; ruler of Taurus ♉ and Libra ♎ |
| Mars    | ♂ | Applied energy; ruler of Aries ♈ and Scorpio ♏  |
| Jupiter | ♃ | Expansiveness, opportunity; ruler of Sagittarius ♏ and Pisces ♓                       |
| Saturn  | ♄ | Ambition, time, strategic delay; ruler of Capricorn ♑ and Aquarius ♒                  |
| Uranus  | ♅ | Individuality, independence, suddenness; co-ruler of Aquarius ♒                       |
| Neptune | ♆ | Camouflage, deception, ethereal; co-ruler of Pisces ♓                                 |
| Pluto   | ♇ | Mass appeal, grand change, regeneration; co-ruler of Scorpio ♏                        |

The basic meaning of each House (chapter 2) is modified by the Sign upon its cusp (chapter 3). In the introduction to cuspal analysis (chapter 4), we saw that the House meaning could be modified further *by the placement of the planet ruling the Sign on the House cusp*. Similarly, a planet positioned *within* a House modifies the House meaning too.

Saturn rules Capricorn. Capricorn is the natural Sign

of X. Almost regardless of the Sign on X, Saturn will have strong, clear, “expected” meaning when it is found in House X. —Conversely, Cancer (the Sign opposite Capricorn) is the natural Sign of House IV (the House opposite X). When Saturn is in IV, *it is as far away as it can be from its own best position*. Perhaps its “worst” position then is in IV . . . or in Cancer.

Understandably, the interplay among Signs, rulerships, planets, and Houses is not easy. It is the path of study leading to the art form of analysis.

The date of birth gives the Sun its *Sign* position. The time of birth gives the Sun its *House* position. The place and time of birth establish the Signs upon the House cusps. The parts of the whole birth-moment work together dynamically to focus the life-energy of the identity.

The Sun in a House illuminates the House meaning thoroughly. Through the whole life, this life-energy of the Sun in its *Sign* will be seen, especially in terms of the House where the Sun is located at birth. For example: the Sun in House I, most simply, would present a “sunny” disposition, a radiant illumination of the Self in the nature of the Sign occupied by the Sun. The Sun’s presence would alter enormously the Sign meaning of the Ascendant’s cusp.—The Sun in II: personal resources would be a focus of energy in the life; the person might attract money . . . expressed in the nature of the Sun’s Sign.

With a Gemini Sun in II, we could instantly suggest that the person born with the horoscope (hereafter called

the *native*) would attract possessions, money, resources from *several* directions, sources (Gemini). This basic meaning would permeate the entire life as the prime energy flowed through it. The young child might show precocious abilities with organizing little money-earning situations; the young adult might overspend in different directions; the mature native might have learned from mistakes, stabilized income from several sources, yet always struggle with indecision (Gemini) about resource management. The pressure would always be on: to express one's Self through resources, money, talent, other people's finances.—If the Sun were in Capricorn in II, the administrative power and patience of Capricorn would take over. The *multiple* sources would be gone, and a crystallized, consolidated focus would be in their place through Capricorn. But in every case, the Sun in House II would awaken the Self's concern with personal resources, money, etc. The *style* of expression would be suggested by the meaning of the Sign. The other dimensions: intensity, scope, changeability, nuance . . . all the actual experiential values would be established by the planets related to House II through position there (with or without the Sun) or by rulership of the Sign on the second cusp.

The Sun in III would highlight flexibility, communication, illuminated reactions.—The Sun in IV would do the same for considerations of the home and security, of one of the parents.

A further example: the Sun in House IX would illuminate higher thought, publication, religion, higher education, foreign travel . . . all the meanings of IX. If



Sagittarius were on IX and the Sun were there, these meanings would be emphasized since Sagittarius is the Sign natural to IX. If an Aries Sun were in IX, the native in his individuality and impulse (Aries) would overrule group thoughts and codes *with his own*. Fanaticism would be possible with the Sun in Aries in IX. If Saturn were also placed in IX, sober strategies and patient delay would modify the impulses considerably. The thrust would be there because of the Sun in Aries in IX, but the experiential manifestation would gain dignity and conservatism. Here might be the inspiring minister, the religious leader.

We will study each planet within each House. When analyzing your first horoscopes, begin by combining these abbreviated planet-House meanings with the meanings of the Sign on the House cusp, and you will be on your way to understanding the experiences within the native's life promised by the House.



- ☉ in I: Sunny disposition; the Self projects easily health.
- ☉ in II: Attracts money and good fortune.
- ☉ in III: Optimism, flexibility; communication is an important and successful outlet; good correspondent.
- ☉ in IV: Favors the home, real estate, energizes new starts.
- ☉ in V: Glowing feelings, creativity; loves exercise

of the body and emotions; teaching, speculation; children.

- ☉ in VI: Determined worker, faithful to task; vitality if the Sun receives no negative relationship from other planets.
- ☉ in VII: Attracts public appreciation; optimistic spouse; the public personality.
- ☉ in VIII: Deep creativity, large understanding of life, needs outlet for grand feelings; without outlet, light dims.
- ☉ in IX: Illumination of the noble often outshining the practical; gain through higher education, extended travel, religious study.
- ☉ in X: Attracts fame and honor; when negative: scandal.
- ☉ in XI: Attractive to the opposite sex; famous friends, pride in the "right" friends.
- ☉ in XII: Private search for self-perfection; standards are private; the social institution can take over the individual statement.

As we will see in Volume III, the Sun will make powerful relationships with other planets: the light, the life-energy will be modified. A House IX Sun poorly conditioned could show a native with great frustration about *not* having had educational opportunity. All the possible meanings are dependent upon the Astrology of the whole. We are approaching full synthesis step by step.

The Moon reflects the Sun's light upon the Earth.

The Moon gives *form* to the radiant energy. The Moon orbits around the Earth once every month. Its speed and changes in light bring *changeability* to man's experiences, phases to his emotions, and varying focus to the light of the Self. *The Moon is the symbol of the personality's form.*

Having no light of its own, the Moon collects the Sun's light and distributes it. We cannot look directly at the Sun; the light is blinding in its intensity. But we can look upon the Moon and see the Sun's light in form nearer the Earth.—In the horoscope, the Moon collects influences and distributes them to the Earth-public in its movement throughout the circle. Where we find the Sun, we find the specific show of the Sun's light, the show of Self energized by the Sun energy. *The Moon's position shows us the area of life-experience that helps to fulfill the Sun's potential.*

The Moon and Sun work together. The Sun provides the life-energy light in terms of its Sign and House position at birth. The Moon receives this light with its Sun-Sign and Sun-House meanings and "beams" it vividly and with form into a particular area of life-experience. The House in which we find the Moon is the description of where the identity applies itself *most noticeably* in life-experience. The Moon shows the life-energy to others, to the public.



☽ in I: Inclined to moodiness, phases of mood  
invite delay and unsureness;

conscious of self-appearance; sensitive to public opinion.

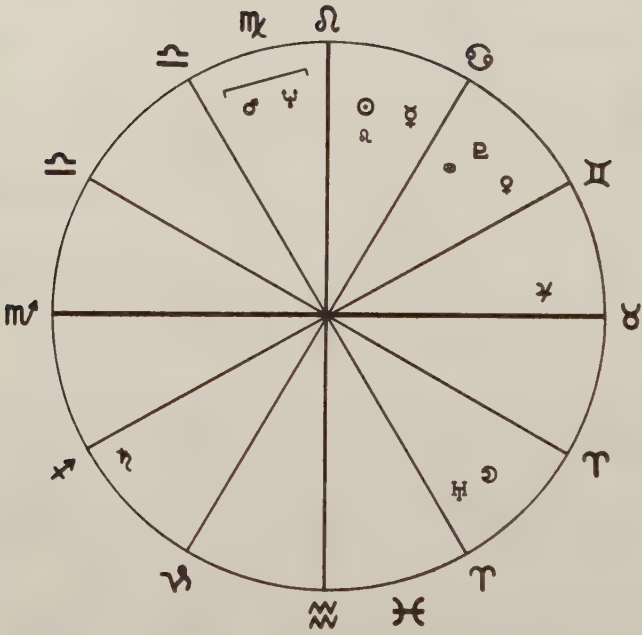
- ☾ in II: The reflection can be more than the substance. The attention will be devoted to personal resources, but strength and structure are needed from elsewhere in the horoscope to fulfill the position; charm; the changeability of the Moon, because of its speed and light phases, does not harmonize easily with the consolidation and structuring meanings of II.
- ☾ in III: Intellectual curiosity; communication need; perhaps enigmatic because of the fluctuation of ideas; humor; travel; the Moon's changeability works well with the House III basic meanings, reactant and distributing.
- ☾ in IV: Family loyalty; good relationship with mothers; antiques; the home(land) is the personality's mirror.
- ☾ in V: Creative focus; publicity; children; teacher.
- ☾ in VI: Frequent changes of job; considerate of coworkers, though moody. The concept of service brings outlet to the personality; sensitivity to sickness.
- ☾ in VII: Public personality; attracts sensitive people; marriage indecision.
- ☾ in VIII: Needs security. Self-doubt and worry. Light is dimmed and the life passes by

- unless strength (more light) is collected from elsewhere in the horoscope; jealousy.
- ☽ in IX: The elevated intellect, the dreamer; imagination, public morals.
  - ☽ in X: Public position, managing change, publicity; success through women.
  - ☽ in XI: Popularity with women; choice of goals important for happiness; humanitarian projection; sense of security depends upon attention of others.
  - ☽ in XII: Institutional success; public welfare; debilitating sensitivity. Moodiness is storehouse of creativity.

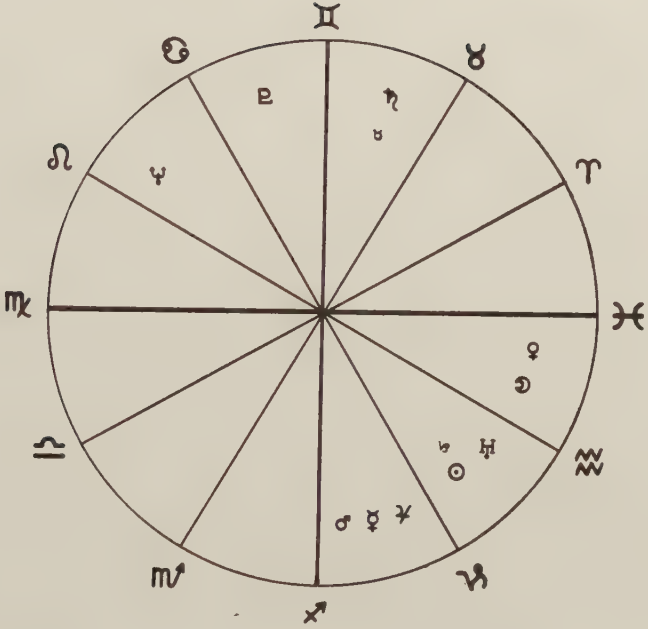
Jacqueline Onassis has her Leo Sun in IX (page 80): her life-energy will seek foreign outlets and influences, as well as higher thought and philosophy for self-fulfillment. The attitude will be one of a queen (Leo), reigning through these House IX meanings. Her Moon is in House V giving her a personality presentation of creativity, publicity, and the important consideration of children.—Her Moon (in Aries) “collects” a difficult relationship from Pluto (co-ruler of Scorpio on her Ascendant) in House VIII in Cancer (both Cardinal Signs) which carries with it meanings of death and sorrow. We can begin to see the corroboration of her difficulties giving birth, her dead child, and the transformation of her personality through tragedy.

President Nixon has his Capricorn Sun in V (page 81):

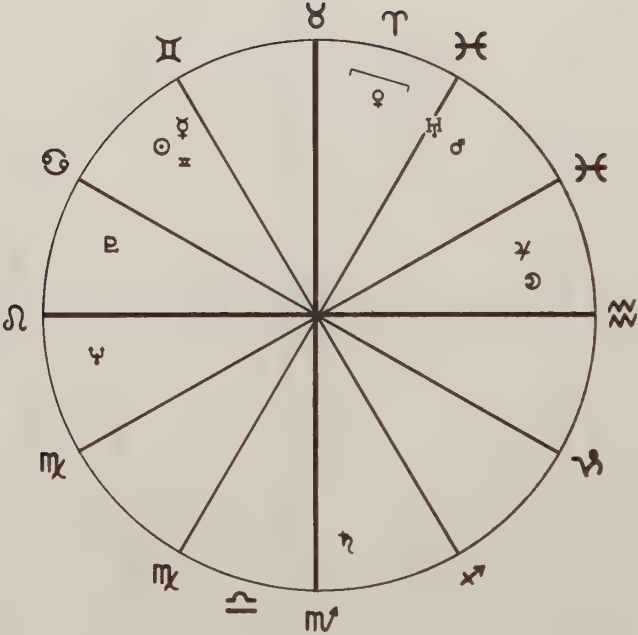
Jacqueline Onassis



Richard Nixon

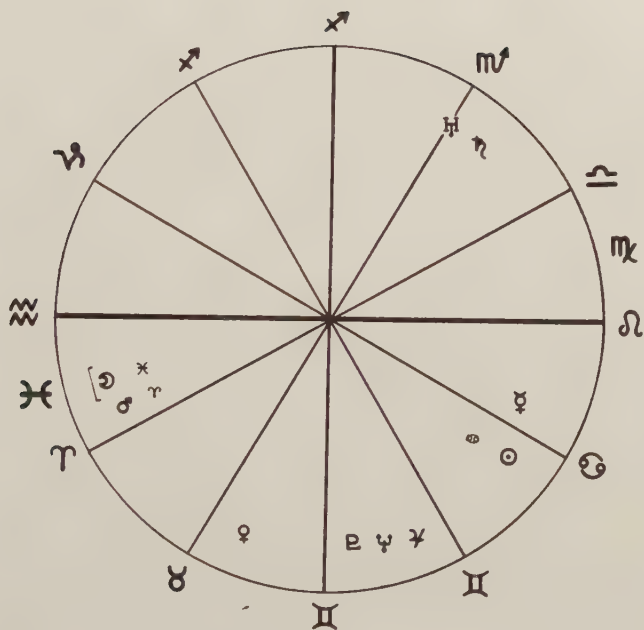


Marilyn Monroe

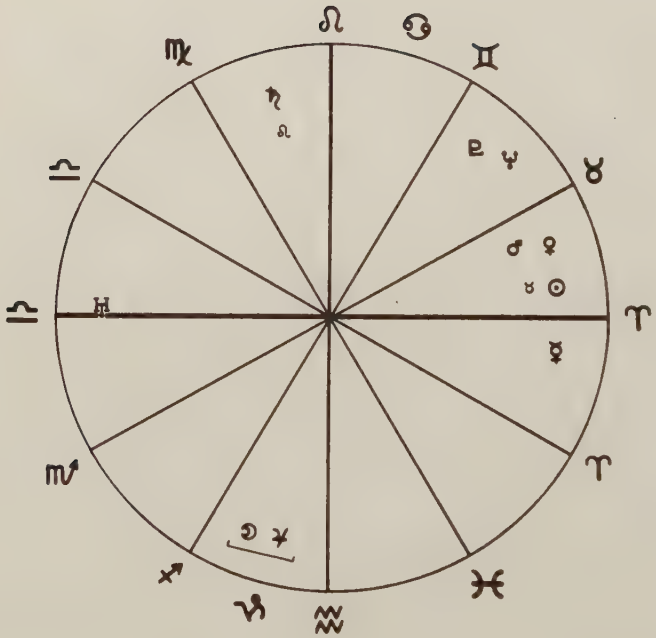




Duke of Windsor



Adolf Hitler



his life-energy would administer his creativity keenly (with a Virgo Ascendant), and his emotional side would be shown best through his children. His Moon is in House VI giving a personality presentation of public service, a frequent change of work position. The Moon is in Aquarius, the Sign of humanitarianism. Additionally, the Moon collects a driving relationship from Saturn in IX (both bodies in Fixed Signs): an aggressive, humanitarian, service ambition in foreign affairs, law, philosophy, diplomacy.

Marilyn Monroe's Sun was in XI (page 82): attractiveness, famous friends. Her Moon was in VII: a public personality. Her Moon also was in Aquarius, but in her case the meanings of unusualness and invention apply more. Her Moon and Sun were in splendid relationship (Aquarius-Gemini, both Air Signs): the life-energy flowed well, important friends helped her public career and became her husbands (VII).

The Duke of Windsor's Sun in Cancer in V (page 83), focused his life-energy within his emotions and home(s). The Sun is just leaving House V, which begins with the Sign Gemini. Duality in V would again be stressed. His Moon was in House I: moodiness, delays, unsureness, sensitivity to public opinion. The Moon in Pisces would be so sensitive and woundable. Here, in splendid relationship with the Sun (both Water Signs, Cancer and Pisces), the fulfillment of Self worked out well, but not without the difficult decision between emotional opportunities and "home" responsibilities.

Hitler's Sun in Taurus in VII called forth his

life-energy to structure itself publicly (page 84). The Libra Ascendant—with the related planetary complications mentioned in the preceding chapter—warped the social need. His Moon was in House III: communication need, enigma; Hitler's writing of *Mein Kampf*, his overwhelming speech style. The Moon was in Capricorn, debilitated by being in the Sign farthest away from the Sign it rules (Cancer, opposed to Capricorn).

When an astrologer looks at a horoscope, it is very difficult for him to break down each observation. His eye and instinct for synthesis work extremely rapidly. The expert too had to learn and, when faced with a complicated and difficult horoscope, he still isolates the parts in the way we are studying them. Always, the Sun, Moon, and Ascendant, together with the Signs upon the Houses, are the core of the astrologer's synthesis. Then, the planets placed throughout the Houses modify the synthesis importantly, sometimes crucially.

Study the following abbreviated possible meanings carefully. They are open to extraordinary modification.



*Mercury: fleetness, diversity, intelligence.*

♿ in I: Need to express ideas; sometimes careless in speed; stuttering or eloquent depending on other planetary relationships.

♿ in II: Money-making ideas; quick salesman; recruiter.

- ♀ in III: Natural communicator; travel agent; talker, critic.
- ♀ in IV: Unsettled home; guests in the home; literary family friends.
- ♀ in V: Attractive glibness with emotions; intellectualized creativity; writing.
- ♀ in VI: Conservative worker; details slow pace; possible nerve problems; mental work.
- ♀ in VII: Vacillation under public pressure unless strengthened by other relationships within the horoscope; brightness of ideas captures public fancy.
- ♀ in VIII: Mental preoccupation with the occult, mysteries, sex; communicates other's resources well; slyness.
- ♀ in IX: Writer, diversified ideas; difficulty getting deeply into conceptions.
- ♀ in X: Expects speed and facts within the profession; the short-range effort is more important than the long-range plan.
- ♀ in XI: Literary friends; shares knowledge.
- ♀ in XII: Dissects and analyzes others' problems.



*Venus: aesthetic, comfort, beauty, social desire; possessions.*

- ♀ in I: Possible beauty; appreciates the good things of life; expects comforts; vanity.

- ♀ in II: Financial success easy; tends to use up profits; luxury items.
- ♀ in III: Good appearance presented, class and refinement; charms with ideas; compromising.
- ♀ in IV: Home important after social push is finished.
- ♀ in V: Loves life, art outlets, beautiful children.
- ♀ in VI: Artistic endeavors, promotion of luxury items; either cooperative or wants things on own terms.
- ♀ in VII: Beautiful mate, easy public acceptance; possible law practice.
- ♀ in VIII: Marrying for money or better social position; excesses in all forms; insurance gain or inheritance.
- ♀ in IX: Great desire for harmony at all levels: beautiful thoughts, poetry, intuitive.
- ♀ in X: Desire for social acceptance; possibly "spoiled": art field.
- ♀ in XI: Romantic; artistic friends.
- ♀ in XII: A special, private kind of beauty; secret affairs.



*Mars: applied energy.*

- ♂ in I: Dynamic and driving; impatience with Self; courage and pride.

- ♂ in II: Money goes quickly; impatience when demands are not met.
- ♂ in III: Restlessness; direct action; intense belief in own ideas.
- ♂ in IV: Stormy home life; patriotism; fire in the home.
- ♂ in V: Ardent; weak when tempted; competitive.
- ♂ in VI: Fast pace invites illness; impatience alienates coworkers; dedicated; fevers.
- ♂ in VII: Possible dominant mate; need to prove the Self; impulse into the public; argumentative; hasty marriage.
- ♂ in VIII: Disregard for personal health or security; invites violence—unless favorably conditioned.
- ♂ in IX: Tendency to fanaticism; opinionated; possible dangers during travel.
- ♂ in X: Personality guilds the stature; military; tremendous Will; needs professional outlet.
- ♂ in XI: Attracts others through dynamic action; nothing halfway.
- ♂ in XII: Bucking the organization; disputes with society.



*Jupiter: expansiveness, opportunity, education, wealth.*

- ♃ in I: Inclination to extravagance or benevolence; enthusiasm abounds.

- ♃ in II: Good luck; hard to satisfy; prepared always to win.
- ♃ in III: Common sense; applies ideas in grand scope; much travel.
- ♃ in IV: Expansiveness in the home; expects easy gain.
- ♃ in V: Again good luck. Excellent speculation ability; large capacity for love; popular with children; teaching.
- ♃ in VI: Generous; social work. High morale; personnel work.
- ♃ in VII: Attracts public enthusiasms; generous partner.
- ♃ in VIII: Gain through inheritance; management of others' monies.
- ♃ in IX: Intellect, law, the Church; humanitarianism, world views; publishing, the out-of-doors.
- ♃ in X: Grand recognition; pride.
- ♃ in XI: Popularity, generous friend or lazy hanger-on.
- ♃ in XII: Charitable, enthusiasms easily locked away; luck at difficult times.



*Saturn: ambition, time, strategic delay; morbidity, withdrawal, conservatism.*

- ♄ in I: Can bring depression; negative outlook;



dreary mood; early responsibility; ministerial.

♃ in II: Builds slowly for the future; plans resources carefully, anxiety about money; overeconomizes.

♃ in III: Mental attitude important; depression, overconservative; patient.

♃ in IV: Early home problems; antiques; older parents; deaths significant in experience; precocious maturity; anxiety about old age.

♃ in V: Sexual difficulty possible; strategy can replace love; conservatism; self-defensive.

♃ in VI: Administrative work; punctuality; details management; weighty reaction to work; sickness and possible unpopularity on the job.

♃ in VII: Morbidly sensitive mate possible; older or much younger mate; experiences with the public are importantly instructive; gain of wisdom.

♃ in VIII: Searching for the Self. Caution with others. Ambition wanders; disappointments with inheritance.

♃ in IX: Ambitions in foreign lands, higher thoughts; inclination to orthodoxy; judicious and righteous.

♃ in X: Work, determination, highest ambition; one parent possibly taken out of the life

picture early in life. Early winner; demands respect.

♃ in XI: A great need for love; consciously works to be friendly.

♃ in XII: Weak against restriction; needs leadership; loner.

Difficulties are essential for growth. They are challenges to the system, usually through ambition and most often seen through Saturn. The position of Saturn is extremely important. It shows the *focus* of the identity's ambition. The abbreviated meanings here are only *possibilities* subject to modifications to be studied in Volume III.

Saturn is a key to astrological prediction: its orbit in 28 to 30 years around the Sun is echoed by the orbit of the Moon around the Earth in 28 to 30 days. Man fulfills his life through ambition in the fullness of time.—It is too early in our studies to go into the meanings of Saturn deeply. They will be expanded gradually.

After Saturn in the solar system come Uranus, Neptune, and Pluto. These three trans-Saturnian planets have only been discovered within the last 200 years. The meanings within a horoscope are still being formulated through theory and observation. The ancients knew nothing of them, although they theorized the appearance of more planets as we still do today. Basically, astrologers agree that these three planets have meanings for large concepts and applications to large numbers of people within the

modern era. Initial theories about them arose from the state of the world at the time of their discovery: Uranus was sighted in 1781 when the United States was in the throes of a battle for independence; when the world of science was beginning to expand rapidly with world-changing inventions and their applications. Neptune's discovery in 1846 coincided with the American Civil War, the turning of brother against brother, the camouflage of the spirit, loss of meaning, as well as grand interest in the occult and religion everywhere. Pluto was discovered in 1931, with the rise of nazism and world conflict... not yet at rest.—For application in the individual horoscope, we must keep these larger pictures in mind.

## ♅

*Uranus: individuality, independence, suddenness, eccentricity.*

- ♅ in I: Often a position of genius; one who attracts enormous attention; grand inspiration possible; magnetic; often too much potential to fulfill; eruption.
- ♅ in II: Unusual financial dealings; takes risks.
- ♅ in III: Excessive deployment of abstract ideas can waste effort and time; avant-garde; too many directions at once; inventive.
- ♅ in IV: Possibly an eccentric parent; unusual home life; needs an audience.

- ♃ in V: Publicity galore; sensationalism; ardent sex potential possible.
- ♃ in VI: Inventive about problem solving; cannot take restriction; versatility essential; sudden sickness; nerves.
- ♃ in VII: Unusual mate; spontaneous attachments or separations.
- ♃ in VIII: Extreme interest in the occult; unusual circumstances surround others' monies; unique humor possible.
- ♃ in IX: Sudden legal, religious, or philosophical occurrences; sudden travel plans to get away from it all.
- ♃ in X: Unusual professional situation; highly independent; inventor.
- ♃ in XI: Unusual goals can mitigate application of realistic ambition; unusual friends; very special kind of love needed.
- ♃ in XII: Fights for underdog; breaks out against constraint; individuality sometimes hidden behind the social motive.



*Neptune: camouflage, deception; the ethereal.*

- ♆ in I: Intuitive; dreams significant; sensitive; possible self-deception; music.
- ♆ in II: Subtle unusualness in financial affairs; nip and tuck with reality.
- ♆ in III: Illusion; mind seeks all that is other than

practical and easily attainable; hard to please; the artist.

- ♃ in IV: Something unusual about the home life; may attract others who deceive the native; many home changes.
- ♃ in V: Possible self-deception about love; idealized emotional brooding; love displaced; romantic creativity.
- ♃ in VI: Loner on the job; strange sicknesses.
- ♃ in VII: Unusual relationship with mate: somehow supportive, in order to satisfy peculiar needs or weakness in the Self.
- ♃ in VIII: Spiritual comforts. Psychic.
- ♃ in IX: Mystical attitude toward learning and religion; long voyages.
- ♃ in X: Possible theatrical or artistic profession; unusual is cultivated for public position; not easily understood or appreciated.
- ♃ in XI: Unusual love and acclaim looked for; strange friends; behind the scenes of society and theatrical deceptions.
- ♃ in XII: Mysterious loner; waiting for society to show the way.

## ♄

*Pluto: mass appeal, grand change, regeneration.*

- ♄ in I: Enormous projection of Self; powerful personality.
- ♄ in II: Changes in income and its sources;

ability to change the tide of momentary difficulty.

**P** in III: Intense mind; progressive; courageously opinionated.

**P** in IV: Early childhood problems put a chip on the shoulder; recognition of the Self's authority important.

**P** in V: Interest in sports; gambler; undercover emotions or emotions covered up.

**P** in VI: Involved with the work group, labor unions; the welfare of the working class; possible blood difficulty.

**P** in VII: Grand public enthusiasms; possible overturn in marriage.

**P** in VIII: Self-reliant; affairs of death prominent in the life; regenerates the Self through difficulty; progressive within convention; psychoanalysis.

**P** in IX: Opinions identified with and projected upon the world; native has all the answers.

**P** in X: Powerful public position; public profession; demands place of authority.

**P** in XI: Demands loyalties; gives of Self intensely; friends and society rule the native's life by their expectations.

**P** in XII: Frustration with the world for not understanding the native.

The abbreviated suggested meanings offered in these pages in relation to Signs on House cusps and planets

within Houses are *possibilities*. At this point in study, the student is not yet prepared for the modifications of the planets in experience through the relationships of planets in different Signs and with other planets.

For example: you have drawn your child's horoscope and he or she has Saturn in X. You have read that there is the possibility that one of the parents will be removed somehow from the child's life situation. This observation is valid, but *it is subject to a grand scope of modification* through relationships yet to be studied. You might read of Mars in VIII, see corroboration in the tragic end of Marilyn Monroe, and note this position of Mars in your own horoscope or in that of a friend. Mars as well is subject to modifications through its Sign position and relationship with other planets. Such modification might cause an overcompensation against recklessness with Self security and safety: the experience manifested may be an overconcern for safety, etc.

The meanings offered *are* valid. They set the stage for modification. The meanings are *possibilities* only. They include positive and negative potentials in practically every case. Life-experience demands resolution of difficulty before rewards are won. The plant must suffer winter before enjoying spring.

It cannot be emphasized enough that Astrology is *investigation*. Interpretation becomes an art form. The astrologer is witness to complex human drama.

These outlined clues to meaning hardly begin to scratch the surface. In the instant that we are aware of a planet in a House, we must embrace the relationship of

this planet to its Sign (Volume III), to the planet that rules the Sign of the House, to the other planets in other Houses. All the relationships modify further and further the basic potential for meaning. In putting several together in initial synthesis, a *level* of development and response is usually clearly ascertained. Then, the understanding of the other positions *applies to the same level* for the other significators.—*No horoscope can speak all the potential dimensions of the meanings.*

Later in our studies, we will see positive and negative, evolved and unevolved levels of reaction potential. It is obvious in Hitler's horoscope that practically every meaning would adopt a negative pole, an "unevolved" level for interpretation. And certain horoscopes can be so positive in one section that difficulties in another are overcome easily.

In President Nixon's horoscope, for example, we cannot easily apply the base meaning for Mercury in House IV: unsettled home; guests in the home; literary family friends. This does not mean that his Mercury is unimportant. Quite to the contrary, Mercury rules the Virgo Ascendant; it is *very* important. Perhaps we should be prepared to elevate the basic meaning to include: best projection of Self is in the home; diplomatic meetings there will go well; home study and writing will be profitable.—Another modification besides *level* is that, in House IV, his Mercury is "caught" between Mars and Jupiter. All three basic meanings would have to be considered: patriotism for Mars and expansiveness in the home for Jupiter . . . *both* applied to the *home-country* by



virtue of Nixon's level, his public position. Then we see that Pluto is in X opposite these three planets in IV: the professional pull of the masses and the other meanings *complete* this axis. Read at President Nixon's level, this axis X-IV becomes the powerful spine of a powerful horoscope.—And it would not be humor to bring into a discussion of his House IV the positions he has held in the House of Congress, the White House, his summer houses in Florida and California, and his political considerations of residency.

In Hitler's horoscope, the Venus in VII—beautiful mate, easy public acceptance—is almost completely modified. He was unmarried until the very end, was adored by women, and had extreme sexual problems. He achieved social acceptance only after a long term in prison. His Venus is in the exact same position as Mars and both have an extremely debilitating relationship with Saturn. The combination of these positions begins to tell the story.

Additionally, Hitler's Uranus is just leaving House XII, almost entering I, the Ascendant. Combining the two House meanings for Uranus describes his political rationale and personal genius for exploiting his extremely debilitated individuality.—Hitler assembled a cabinet of astrologers. They saw the difficulties rising to consume the identity. Hitler had them killed.

Marilyn Monroe's Venus in IX must take on a special level of meaning, more than “great desire for harmony at all levels; beautiful thoughts, poetry.” Indeed, she voiced these wishes often and she tried to read and write poetry, married a playwright. But with such a public pull upon her

identity seen through Houses XI and VII, combined with the illusion of Neptune in I and the home problems of Saturn in IV, we can say that this Venus position shows one who does all she can to please everyone. This would be a keen synthesis of the problems in her life from the point of view of Venus in IX.

The Duke of Windsor's House I contains *both* Mars and the Moon. His Moon is superbly placed in relationship with Uranus and the Sun (they are all in Water Signs). Mars is in bad relationship with the Sun (two Cardinal Signs). Again, we see the two forces fighting within him. The martial thrust promised by Mars was overruled by the Moon's strong position in the Ascendant: the symbol of the personality's form in the area of personality projection, superbly related to the life-energy (Sun) and the symbol of individuality (Uranus).—The synthesis clearly describes the crisis in the Duke's life, leaving the throne of England to marry a foreigner.

And last, Jacqueline Onassis and Richard Nixon both have Uranus in V: publicity galore; sensationalism. Nixon has his Sun in V illuminating this life potential tremendously. Mrs. Onassis has her Moon there forming the personality into this sensational dimension. The difference is that Mrs. Onassis is a Leo (the Sign *natural* to V) and can manage the limelight, reign within it naturally. Nixon is a Capricorn and tempers the limelight with conservatism and a darkened silhouette.

*Further considerations.* The Signs of the Zodiac gain

their meanings from the planets most closely identified with them through rulership (Volume I). *With every House in the horoscope there is a planet involved.* With more study in Astrology, we will learn always to look to the ruler of the Sign on the cusp of the House and evaluate its condition and position. Even if there are many Houses in the horoscope *without* planets within them, these empty Houses have much to say through the planets ruling the Signs on the cusps and the positions of these planets elsewhere.

There are horoscopes with four, five, or six planets within one House. Astrologers call such a cluster a *stellium*. The focus upon such a crowded House emphasizes the House and needs very careful analysis to distill its meanings. Stellia are pronounced and interesting in the horoscopes of Martin Luther (in IV), Louis Pasteur (III), Queen Victoria (XII), John F. Kennedy (VIII), and Lyndon Johnson (I).<sup>1</sup> One sees Martin Luther's search on behalf of the soul; Pasteur's research; Queen Victoria's inhibitions and secrets that gave her name to an era; perhaps Kennedy's destiny to die tragically; Johnson's powerful, sharp personality projection.—In the case of the stellium, one must break it up by referring back to Signs ruled by planets within the stellium. All the forces of the native's experience then would be developed through life to focus upon the House of the stellium.

There are horoscopes with all but one of the planets

1. Luther, a Scorpio; Pasteur, a Capricorn; Queen Victoria, a Gemini; Kennedy, a Gemini; Johnson, a Virgo.

grouped closely within three or four Houses with the single, lone planet opposite the group. The single planet (singleton) becomes extremely important: it is the handle that swings the *bucket*, as Marc Jones calls this formation.

Very often, the astrologer sees horoscopes where all planets are grouped above or below the horizon, or in the eastern half or the western half.—All these configurations mean something—like features on a person's face or the composition of a master painting—and later in this series we will develop a view of the horoscope as a whole identity, and we will begin with the pattern formed by the planets.

The planets live in Houses and indeed bring the Houses to life.

## 15

# Advanced House Reading

A beauty of nature is that the parts of any whole and separate wholes themselves are interrelated in almost magical, predictable ways. Indeed, this natural "magic" of interrelation is the basis of scientific method. The drop of water shows the ocean. Life cycles parallel seasons. An atom is a miniature solar system.

The behavior of man appears to be something more than the interrelation of his parts because of his Free-Will. Above other animals, man chooses; his Will makes a selection between variables, between dualisms, constantly. Astrology "captures" the whole of identity by reference to the macrocosm, the solar system. Even the powerful Will *uses* the parts of the whole to express itself. And religions suggest another component: the soul, man's gift from the Creator in whose likeness man is made; the home of his spirit.

Throughout all though, there is, there must be a natural harmony, an interrelation that glorifies the all-pervasive creative principle. Astrology seeks to

appreciate and measure this harmony in service to man, spirit, and fulfillment of the creative, choosing Self.

Theoretically, man is born of and within natural systems. He internalizes the systems of his parents and the system of the cosmos at his own birth-moment. It is uncanny how a child's horoscope reflects the horoscopes of its parents: so very, very often, the child's Sun-Sign is the Ascendant of one of its parents; or its Ascendant is the Sun-Sign or Moon Sign of one of the parents; or a particularly powerful planetary relationship in the horoscope of a parent is repeated or echoed in the child's horoscope. The many possible congruences are so reliable that an astrologer can expect to match child with parents from the horoscopes alone. It is almost as if the child selects its parents and the time and place of birth to fit the Natural Order.—It is entirely possible that *all* is contained within the natural order of the horoscope, and it is only for the astrologer to be able to see it. Reading the details of the horoscope punctuates the general frame of the whole; the parts come to life and dramatize the individuality. The Houses offer the potential and the record of these detailed experiences.

In the introductory explanation of the circle of Houses (chapter 2), we saw the relationships among the Angular, Succedent, and Cadent Houses in every quadrant of the horoscope. The Angular Houses begin at the Cardinal points of the horoscope (I, IV, VII, X) and correspond to sharp focus of Self, important during life at distinct periods of development. The Succedent Houses follow the Angular Houses in every quadrant (II, V, VIII,

XI) and consolidate or structure the focus of the preceding House (the Angular House). Then, the third House of the series distributes or communicates what was structured in the preceding House (the Succedent House). This third House of every group is called Cadent (III, VI, IX, XII); it leads away from the interrelated development of the preceding two Houses (Angular and Succedent) *toward* refocusing, further definitive development in the next Angular House. (Look again at the diagram on page 14.)

The relationships I to II to III—to I again—are repeated throughout the horoscope. As we gain experience with the Houses, we read these relationships among *any* Houses *anywhere* in the horoscope, in consecutive order, *regardless of the starting House of the series*. What is preserved and what makes this possible is the natural order of House relationships: the second House from any House will consolidate and structure the meaning of the preceding House (the first in the series). Then the next House in order will be the third of the first of the series and will distribute and communicate what was originated in that first House . . . and was structured in the second of the series, the House in-between.—This series can continue: the next House would become the fourth of the first of the series and would be a readjustment of the development line traced from the first House in the special series.

For example: if we were to start a series with House V, V would become I, the first. House VI of the horoscope would become the second of V, our starting point. House VII would become the third of this series beginning at V; House VIII would become the fourth of V; House IX

would become the fifth of V; House X would become the sixth of V, etc.

*The process is as if we turned the horoscope diagram so that the base House of our new series became the Ascendant, the normal House I.* It is not necessary to turn the chart. We just begin counting with the base House and proceed forward in order around the circle from the new base.

There is one key word in the explanation of what some astrologers call the *Derivative House System*: the word is *of*. . . House VIII is the fourth *of* House V. This preposition clearly defines the interrelation between the two Houses. Too often, the word *from* is used and this is where confusion begins. Actually, House VIII is only *three* Houses away *from* V.—Our basis of counting is essential.

In the musical scale, starting with C, we build chords and harmony through certain intervals of sound. The notes proceed in the order C, D, E, F, G, A, B, and then the series repeats with C, D, E, etc. The note E is two whole tones away from C. When we play the two notes together, C and E make a particular harmonious sound that musicians call a *third*. The C and E will have the same harmony together no matter where on the piano they are played. Any two notes (Houses) played together (related) throughout the tone spectrum (horoscope), when separated by two whole tones (C to D, D to E) will have the same harmony as the third. In fact, the basic chord of all music harmony, called the *tonic*, is made up of two successive



thirds: C-E-G. E is separated from G by two whole tones (E to F and F to G).<sup>1</sup> —G is the fifth *of* C, the base note, the fundamental, if you will. E is the third *of* C—even though G is only four notes away *from* C, and E is only two notes away *from* C.

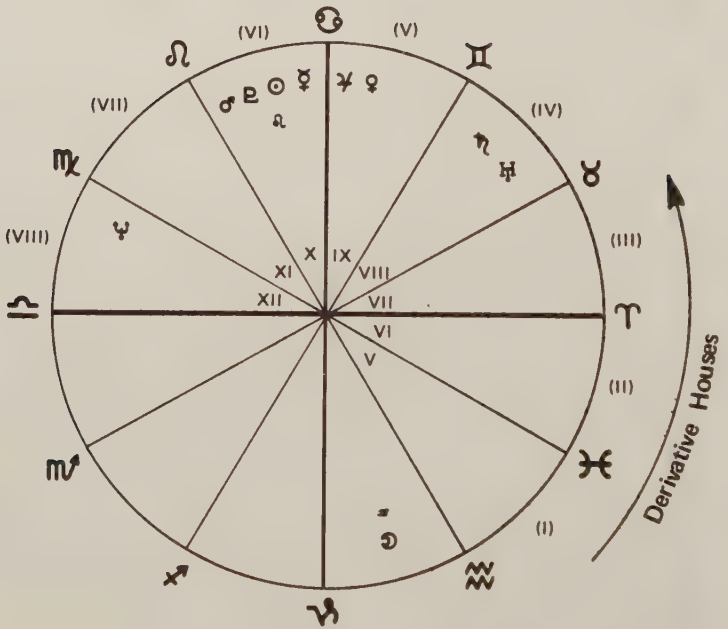
*We begin counting with the base note, the base House, the fundamental.* The relationship between the base and the harmonizing other note (House) is a relationship of *dependency*. The vibrations combine and a special type of sound dependent upon the relationship takes place. *Of* describes the interrelationship perfectly.

The “sound” of a second House relationship is one of consolidation and structuring. This is based upon the natural placement of the Signs upon the “second” House cusps: the second Houses in each quadrant begin with cusps that are naturally marked by Fixed Signs (Taurus on II; Leo on V; Scorpio on VIII; Aquarius on XI). In functional meaning, the Fixed Signs consolidate. Regardless of what Signs are upon these “second” Houses, the functional meaning remains the same but takes on the nature of the cusp Sign as well.

The “sound” of third House relationships is one of distribution and communication, based upon the natural placement of the Signs upon the “third” House cusps: the

1. Note for musicians: indeed, E to F is only a half-step, as is the interval between every third and fourth in every diatonic tonality (major). Our example assumes the major diatonic scale. *Whole tone* refers to the scale step normal to the tonality, and does not refer to the *whole-tone scale*. Of course, within a tonic chord in a major key, the interval between the third and the fifth is called a minor third.

# Derivative Houses Example 1



third Houses in each quadrant begin with cusps that, in the natural scheme, are marked by Mutable Signs (Gemini on III; Virgo on VI; Sagittarius on IX; Pisces on XII).

The Angular Houses have their meanings of focusing power due to the Cardinal points and natural placement there of Cardinal Signs (Aries on I; Cancer on IV; Libra on VII; Capricorn on X).—Again, we repeat: no matter what the Sign upon the cusp, the *functional meaning* of the House remains the same. The cusp Sign only modifies the nature of the meanings' manifestations.

Here is how the derivative House meanings can contribute to analysis.

*Base House:* House V (creativity, love, children).

House VI is the second of House V: creativity is structured and consolidated in VI, through work, service.

House VII is the third of V: creativity that was consolidated in the work and service situation is distributed and communicated to the public through the mate (VII).

House VIII is the fourth of V: creativity is refocused through experience with others' resources and an awareness of deeper dimensions, regeneration, death and rebirth (VIII).

On page 108 is a horoscope example wherein the derivative meanings of House V were extremely important. At first glance at this young woman's horoscope, we see the cluster of emphasis at the Mid-Heaven (X). She should certainly have a professional outlet, but she had no job. Her complaint was that she could not find anything

challenging for real self-development as housewife and mother. The power of House X was making itself felt.

This is an example of the *bucket* pattern, with the Moon, the symbol of the personality's form, alone in House IV, as the "handle." She kept a lovely home and everything was peaceful. But this opposition (awareness) of the Moon to the House X group was demanding resolution.

Her House V—her creativity, love, children, etc.—had Aquarius on the cusp: high sexual energy; unusual innovative ability, perhaps too much so for luck with speculative plans. This was the case: she had a beautiful, unusually bright child, was pregnant with a second, and yet wanted to do something of value in the world outside the home. Her ideas and plans were formulated at very high levels, quite impractically.

There are no planets in House V. We must look for the planetary rulers of Aquarius: Uranus and Saturn. They were very close together in House VIII. Here again, deep creative resources were indicated within her (VIII) and the clash was between innovation (Uranus) and convention (Saturn). Her mind wandered in grand fantasies involving the occult and religion.

The rulers of House VI (Pisces), *second of V*, were in Houses XII (Neptune) and IX (Jupiter). The *structuring* of her creativity was strange and self-limiting (Neptune in XII) and expansively lofty (Jupiter in IX). The basic premise was echoed.

The ruler of House VII (Aries), *the third of V*, was in

X: Mars there again corroborated the need for public presentation, professional outlet.

The native came to a critical point in her life, when all these considerations came to a powerful focus. *For this new level focus* (a “fourth” House indication) of her emotional-creativity-outlet problem, we would continue the series and look to House VIII, the *fourth of her House V*.

She gave birth to a healthy child and then moved with her family from one foreign country to another.—At this time, applying techniques of prediction to her horoscope (Volumes VI and VII of this series), it was clear that the Saturn and Uranus position in VIII would be dramatically activated, as would the Ascendant.—What could we expect from the crucial activation of House VIII in her horoscope?

There would be little question of death for the native personally. The planets Saturn and Uranus definitely referred to House IV (the home, Capricorn) and especially to V (creativity, love, children) as co-rulers of Aquarius. House VIII was the fourth of her House V: the end of one matter, the beginning of another. How could this relate to her children? It would be entirely possible that one of them would become deathly ill, especially in a strange land. Communications with the native revealed that the children’s health was very good, their adjustment fine. This astrologer—working with other modifications as well—could only deduce that there would be a child’s death, perhaps through an aborted pregnancy.—Such

became the case: almost precisely to the days when expected, the native, who had become pregnant immediately after the last birth, *aborted*. It was serious and required hospitalization and surgery. At the same time, the other two children were quite ill.

From this experience, the refocusing of all her love and creative hopes occurred (VIII; fourth of V). She dug deeply into the occult dimensions of religion, questioned her relationship with others to the point of divorcing her husband, and returned to her homeland (Moon in IV). There she began to develop a profession and a new life. Her problems are now at a different level in different areas of experience.

Of course, there are many other dimensions operative in the full analysis of this horoscope. But the focus was upon Houses VIII and V and was pursued by this astrologer in the way outlined.

The extension of the House series starting at a new House base can go beyond three or four. In theory, it can make a complete circle. We see this automatically when we read any singular House: its base meaning is really "the second from the House before" or "House I after XII": a serious sex problem centered in House V as its base would have House IV, the home and a parent, as the twelfth (restrictions) of House V, in the derivative series. We also see this automatically when we read one parent in House IV and the other in X: House X is the seventh (partner) of House IV.—In our example horoscope (page 108), Neptune, co-ruler of her House VI (Pisces) is in XII, *which is the eighth of her House V*. This was another dimension

supporting the initial deduction: the strange, unusual circumstances (Neptune) of a child's death (eighth of House V); an unusual, camouflaged change of love; an unusual regeneration of Self that may begin as a personal limitation, a sense of confinement (XII).

The horoscope on page 114 belongs to *twins*, a brother and sister. Born only seven minutes apart, they share almost precisely the same horoscope. The differences between brother and sister are manifested in how they have applied their almost identical potentials in their different experiences and environments, determined by their sex. The brother heads his household and the sister lives within her husband's household.

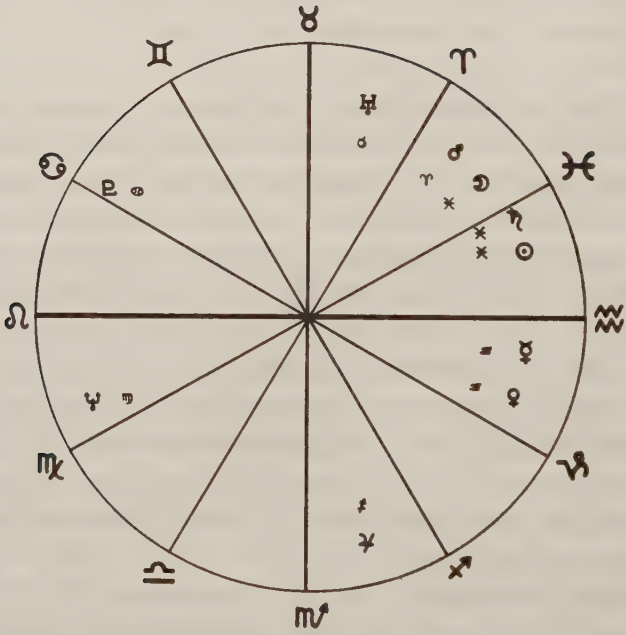
Besides reading the horoscope for the character development of both twins, we would be able to clarify details by reading the Houses in different ways for each: the female's from the husband's base (VII) and the male's from his own (I).

The Piscean twins' Moon is in House VIII. This tells us much about their sensitive, perhaps retiring personality form (offset in part by the Leo Ascendant). But as an experiential factor, it tells us much concretely. House VIII for the male will remain VIII and represent his personal management of other people's monies and resources.—He is an accountant and treasurer of a bank.

For the female, House VIII is also the second of her House VII, and it is best read as managing the funds of her husband (VII). She is also a mathematics teacher.

The planet Neptune is in their Ascendant. They are

Twins: Male and Female





both intuitive, love the water (superb swimmers), and are highly sensitive. Neptune opposing the Moon would add an unusual nature to the working out of the personality. For the male, he is strangely involved with the estate of his living father. This is reinforced by the difficult relationship between the Moon-Neptune and Jupiter in House IV (all Mutable Signs). In the male's case (and his sister's), House IV represents the father (the father is a Scorpio and Scorpio is on the cusp of IV reinforcing the reference).

For the female: Neptune in House I becomes Neptune in the seventh of House VII: the unusual, perhaps theatrical public profession of her husband. He *is* a public performer, a musician. Her management of his professional income is echoed by Jupiter in IV. House IV is the tenth (career) of VII (her husband).

Looking at the natal (birth) horoscope for the twins, we see Virgo on the cusp of House II. Both are detailed, mathematic-accountant types when it comes to money. But the dynamic arrangement involving Jupiter in IV brings "expansion in the home" into consideration. The female overspends energies in the home . . . her own personal fantasies (Neptune in I), where her husband does much career work. She projects homes in other lands, resort areas, etc., (note Uranus in IX).—The male, her brother, purchased a summer house on the ocean.

The female lives in Europe with her husband; the male remains with his wife near his parents' home. In the management of the unusual family tensions, the female escapes by being far away with her husband. The male becomes the center of the issue by proximity to his

parents.—The sex difference related to the father and spouse is the key to understanding the twins' dissimilarities. The full analysis of the horoscope they share is extremely rich in details and complicated fulfillment.

In Jacqueline Onassis' horoscope, her Mars in X is part of the signification of her first husband's violent death: her House X is the fourth (ending and new beginning) of VII (her husband).<sup>2</sup> This is reinforced by the position of Saturn in House II which is the eighth (death) of VII (her husband). And this Saturn opposes Pluto (death and regeneration; public) in VIII (death, other's resources). This configuration relating to House VIII also refers to the difficulty in childbirth and the death of one child: House VIII is the fourth of her House V (children).

In President Nixon's horoscope, Neptune is in House XI opposing his Sun in V. This brings to his life-energy something very unusual, perhaps camouflaged. Read more dynamically: House XI is the fifth (speculation, affection) of his House VII (the public). Administration of his creative life-energy would invite strange speculation from the public, perhaps centered upon his unusual friends (XI), his way of expressing himself (V).

*Review and final considerations.* The Houses work together. Just as there are families of Signs, there are families of Houses. On pages 118 and 120 are the two family diagrams that accompanied explanation in Volume

2. Mars was in House VIII of President Kennedy and figured powerfully in the astrological corroboration (and anticipation) of the assassination.

I. Relating the Houses to these families is a very easy matter.

The three Signs in the same Element Family (Fire, Air, Water, or Earth) form equilateral triangles within the circle. The legs of the triangle(s) connect the three Signs within the same family. In the natural placement of the Signs around the horoscope circle, beginning with Aries upon the Ascendant, these triangular patterns include specific Houses as well.

**Fire:** I (Aries), V (Leo), IX (Sagittarius)

**Air:** VII (Libra), XI (Aquarius), III (Gemini)

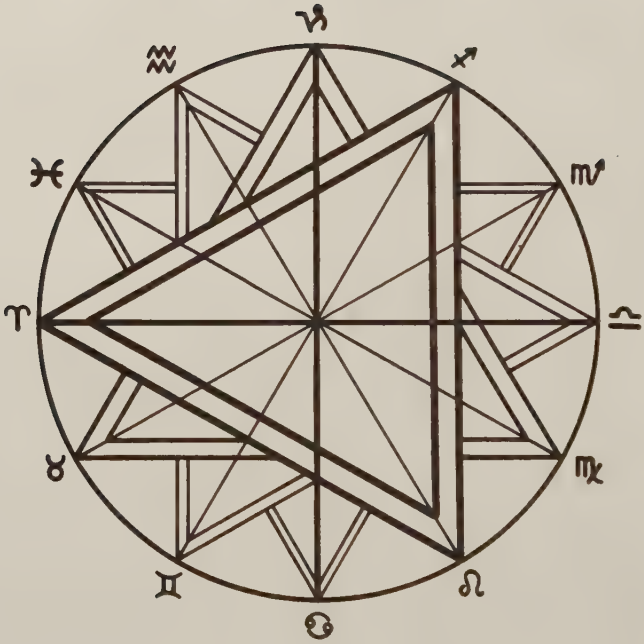
**Water:** IV (Cancer), VIII (Scorpio), XII (Pisces)

**Earth:** X (Capricorn), II (Taurus), VI (Virgo)

These Element Families are harmonious. Each family deals with a particular kind of energy and distributes it in a different mode (Cardinal, Fixed, or Mutable). The radiant impulse of Fire finds specific harmonious registration in experiences of Houses I, V, and IX: projection of the Self; creative expression, love and children; the higher dogma of society, the projection of the higher mind.

The social efforts of the Air Family find harmonious registration in experiences of Houses VII, XI and III: social focus through the public and mate; friendships, social goals, love received; intelligence and communication.

The projection of the emotions and security needs of the Water Family finds harmonious registration in experiences of Houses IV, VIII, and XII: the home and homeland, one of the parents; regeneration through



Elements

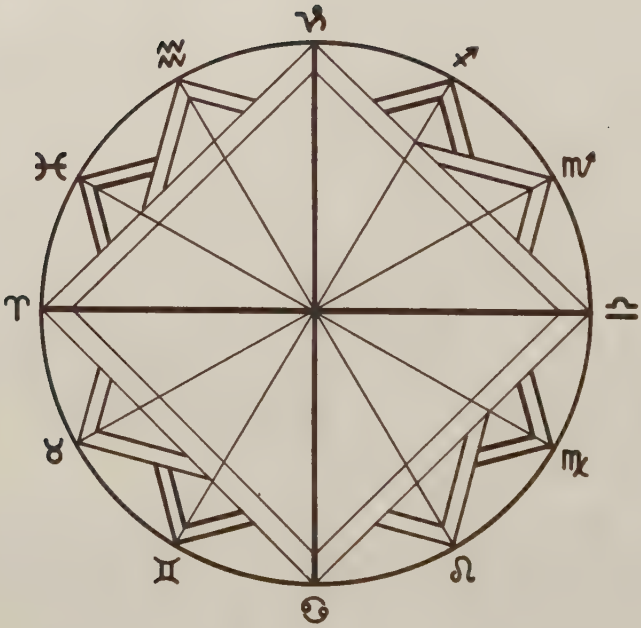
difficulty, the hidden significances of emotions, and the resources of others; the absorption of society's institutional security, emotional welfare, and management of personal security threats.

The practical emphasis of the Earth Family finds harmonious registration in experiences of Houses X, II, and VI: the profession and social honors; the personal resources, wealth; the work and service among others.

Planets positioned within these separate groups of Houses usually will be harmonious in relationship with one another and become welcome factors in the analysis of any horoscope.<sup>3</sup> *No matter what Sign occurs upon the cusps of these groups of Houses, the Houses will maintain their relationship within these groups.* The Signs on the cusps will only condition and modify the meanings of the Houses in terms of the Signs.

The second vitally important family involves the *modes* of the Signs: how the meanings express themselves. As we have seen, the Cardinal Signs (Aries, Libra, Cancer, Capricorn) initiate and lead; the Fixed Signs (Leo, Aquarius, Scorpio, Taurus) hold fast and consolidate; the Mutable Signs (Sagittarius, Gemini, Pisces, Virgo) react. When we connect these modal families within the horoscope, we see squares. And relationship directly across Element Families within each mode reveals oppositions.

3. As was discovered in *Horoscope Construction*, a planet within a House may be in the early part of the Sign of the *next* House cusp, by degree. Full degrees and minutes of location have been left out in the diagrams for this volume in order to emphasize House position. Volume III brings all positions together in detail.



Modes

These squares or oppositions (relationships) present challenge and developmental difficulty. It is easy to understand the connection of Cardinal points, for example: the Angular Houses (regardless of Sign) wherein dynamic refocusing occurs, usually out of tension.

| Cardinal      | Fixed          | Mutable          |
|---------------|----------------|------------------|
| I (Aries)     | V (Leo)        | IX (Sagittarius) |
| VII (Libra)   | XI (Aquarius)  | III (Gemini)     |
| IV (Cancer)   | VIII (Scorpio) | XII (Pisces)     |
| X (Capricorn) | II (Taurus)    | VI (Virgo)       |

Among the Fixed Houses (II, V, VIII, XI), there is also a refocusing of resources developed into love and creativity, developed into use of others' resources, developed into applications to goals and accumulation of friends. These are powerful relationships that give *structure* to the identity's worth. Often, they can be warring and unyielding in flow.

Among the Mutable Houses (III, VI, IX, XII), there is a refocusing of reactions and communication, development in work and service, identification with the social intelligence and opinions of others, and a struggle with personal limitations.

*The relationship between the Houses connected by squares is always one of refocusing, since one House is always the fourth of the preceding House in the modal relationship.*

The two family groupings of Signs in their natural placement give to the Houses the basic meanings and

energies we have studied. These basic meanings never change in substance; they only adjust in their level of interpretation to the level of experience and development of the native.

The Signs and Houses work together to organize the experience of man on Earth. The planets ruling the House Signs and the planets placed within them bring identity to life.—The two families *organize* the whole simply: for the basic House meanings, the interrelationships of Houses, and the relationships of the planets that rule the House Signs and have positions within them. To understand these families is to have an organized understanding of all the dimensions and to be prepared for the final level of synthesis: the relationships between planets and their placement within the Signs (Volume III).

*Mundane Astrology.* When we consider the horoscope for a country, a government, a nation, a city, an organized group of individuals, the meanings of the Houses adjust to still another level. The horoscope is cast for the founding of the group, the ratification of the constitution of the country, etc., and the House meanings rise to the collective applications and experiences of the corporative native. Because of the high, broad level of significance, the House meanings gain an objectivity for the student which can be helpful in clarifying further the subtle subjective meanings of the Houses in the individual horoscope.

House I: The country itself; the general situation of

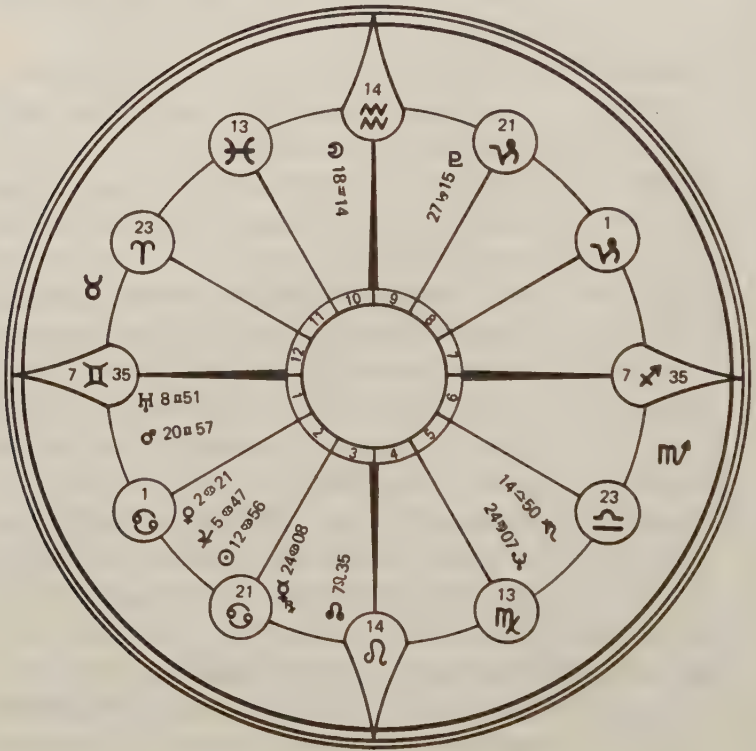


the people, their psychology, their public consciousness.

- House II: National budget, finances, wealth, taxation, general commerce, purchasing power, currency.
- House III: Traffic, transit, domestic travel; communications; post; telephone, etc.; newspapers, periodicals.
- House IV: National housing, real estate; agriculture, mining; natural disaster; the opposition party.
- House V: The youth of the nation; schools; amusements, entertainment, sports, social events; the birth rate.
- House VI: Labor groups, unions; national unemployment; public health; armed services; food supply.
- House VII: International relationships; war and foreign affairs; trade; general marriage considerations of the people; public reactions to the state.
- House VIII: Death rate; financial relations with other countries; public loans; presidential advisors.
- House IX: Long-distance travel, shipping, imports and exports; laws, religions, science; institutions of higher education; immigration; publishing.
- House X: The seat of government; head of state, the

United States of America

July 4, 1776; 2:17 AM; Philadelphia, PA; 40 N – 75 W



[Source: Van Norstrand]

party in power; royalty; nation's honors and world status.

House XI: Congress; advisory groups of and for the people; national policies and goals.

House XII: Hospitals, charities, prisons; crime, secrets; secret enemies of the nation.

On page 124 you see the horoscope of the United States of America. Mundane Astrology is a fascinating field of study. The *movement* of the planets (transits) at their individual rates of speed become extremely important in predicting national developments. Transits bring the planets into new relationships with other planets and their original birth positions. Indeed, transits are vital within individual natal horoscopes as well. The study of transits will be covered in Volume VII. But from the cusps and planet positions in the Houses of the USA chart, much can be deduced.

*Horary Astrology.* - We are able to draw a horoscope for the birth of an *idea* as well. Any question, emotionally charged and important to the querent, can be answered by the horoscope constructed for the moment when the question is born and becomes clear to the astrologer. Lost articles and persons can be located; decisions of choice can be assisted; the duration of sickness; considerations of marriage, etc. Questions about all of man's experience can be answered by the horoscope: the focal moment of consideration embodies the natural system of the moment

# Horary Astrology Example



April 28, 1973  
 11:30 AM, S.T.  
 Düsseldorf, Germany  
 51 N - 7 E

within the chart. The Houses embrace all possible experience, and astrologers adapt the House meanings to the ultimate in specific meanings. These potentials of meaning are vast. But an example can be helpful in our study at this stage.

During the writing of this last chapter, this astrologer received an urgent call. The question involved a decision of enormous importance to the caller. It concerned House X affairs: her profession. She had to make a choice between a new opportunity that was ideal and her present employment. She had been offered a tremendous professional opportunity, but she was under contract to another employer for the same time period. She was balancing the worth of severing ties in one place to achieve her goal in another. The decision had to be made immediately. The chart on page 126 is the horoscope of the moment of her question and concern.

The Ascendant (I) became the woman herself. House IX with Mercury became the message-offer she had received suddenly from a foreign country. The Sun and Venus in X showed her professional position and the focus upon her career. It would also signify her present employer. The woman is an artist, a creative performer before the public: seen in V and VII. The key became Houses VIII and XI: VIII held the Moon, the fastest-moving body which would indicate her immediate actions and the outcome of the matter; XI indicated the ambition focus upon a very important goal, which was related to the message received, through Mercury's

ruled by Gemini on the cusp of XI (and Virgo on III).

The House meanings with the planets become living drama in Horary Astrology. There are many details here, which we will study gradually throughout this series. The advice from this horoscope was negative: the concern and decision tension would not end well; she could not get the job, chiefly because she *would not be released* from her present contract for the time period in question. In effect, the recommendation was to salvage the compliment of the new offer, preserve dignity with the present employer, and look forward to another opportunity in the new location in the future.

Working with the Houses is *not* a task of memorization. It is a task of understanding dynamic relationships and development. One learns the *basic* meanings easily and then absorbs the “feel” of the different levels of meaning through experience. The complexity of the human system within Free-Will defies computer categorization. If such categorization *were* possible, understanding man would be easy, and anyone could “create” the whole by following the recipe. The mystery of life is in man’s infinite diversity. To capture a part of the phenomenon of identity is to appreciate creation all the more.

The Houses do work together. The only limit to their meaning potentials are the limitations within the astrologer himself. The stimulus for careful study is obvious: what a privilege, responsibility, and challenge it is to view the

works of Heaven through man's works upon Earth! The many levels of expression possible through experience are an invitation to study deeply the essay on man housed in the horoscope.





## **Appendix II**



# **Famous Horoscopes**

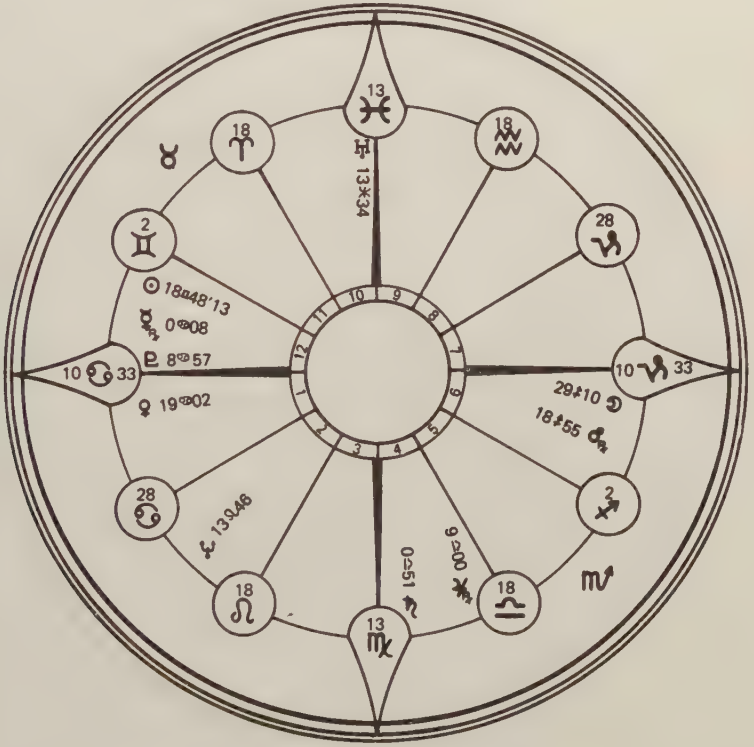






Judy Garland

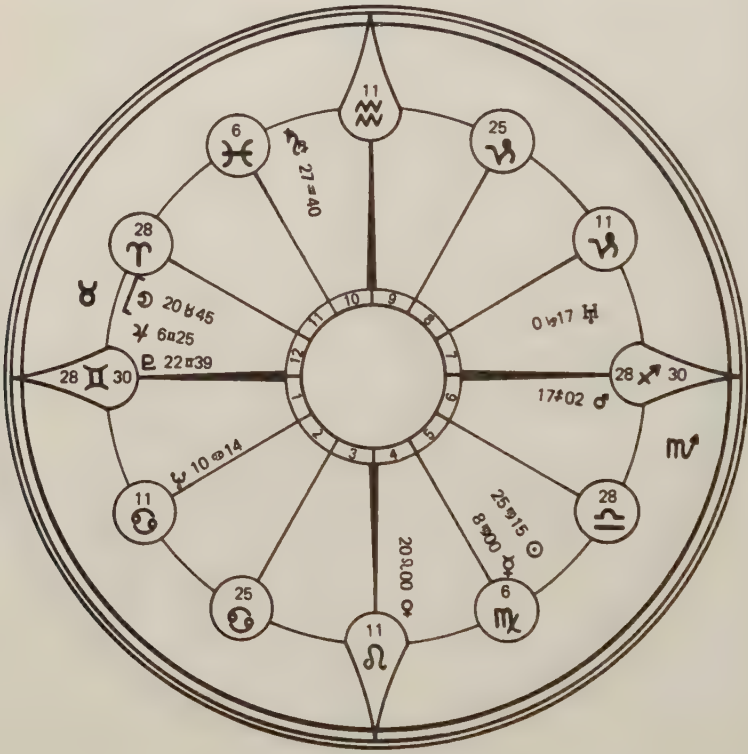
June 10, 1922; 6:00 AM, CST; Grand Rapids, MN; 47 N – 94 W



[Source: M. E. Jones]

Greta Garbo

September 18, 1905; 9:00 PM; Stockholm, Sweden; 59 N – 18 E



[Source: M.E. Jones]



# Book III

## The Planets: Their Signs and Aspects

I suffer nought against my will,  
I am not obedient to God,  
I am in accord with Him,  
and the more so,  
because I know that everything takes place  
in virtue of an immutable law  
proclaimed from all eternity.

*Spiritual Exercises*

“Sucipe” a prayer

St. Ignatius



## 16

# Men and Gods

**Recall your feeling for the Heavens!**

Recall the times when, as you looked to the Heavens, your self-awareness was intensified. Perhaps your feelings were of smallness, aloneness; perhaps unity. If you concentrated, you may have lost perspective, experienced a dizziness, a stretching of your gaze to an unnerving infinity. Your identity was lost or it was emphasized. You felt apart from all or a part of the Whole.

You did not need to know where the planets or other stars were. You needed only to become aware again—away from lights, noise, dirt, thoughts, others—of the place of Earth, the position of man upon it. Your feeling perhaps grew to awe or anxiety: an appreciation of the immensity admitted through the lens of your eye, the awareness of your being.

Considering your awareness romantically: the same Heavens were viewed at that same time by others, by those who share a part of your feelings. Considering your awareness historically: the same Heavens were viewed

and interpreted by wise men millennia ago. —Human awareness transcends time and space.

Besides fire, the ancients had no other light than that from above. The lights above had different colors; they glowed steadily and they moved. The movements had a complicated order. Patterns were constructed upon the stars that seemed not to move, and measurement of motion within these patterned areas became possible. Man's imagination embellished the heavenly drama, and the sky became the stage of the gods, their combat, their loves, their rise and fall. Man's religion on Earth—the answers to his questions of existence—was wedded to the movements of the gods above.

Careful observation of the Divine Order led the wise men of Chaldea to formulate a sense of *Necessity*...the Necessity that preserved the Order. The Necessity ruled the gods above; the gods ruled man below. Man too was influenced by this pervasive sense of Necessity.

All systems of religion invoke the natural order as proof of the existence of god(s). A man studies his vast Heavens, his god placed there somehow, and cosmic emotion is transformed into religious sentiment.

Measurement of planetary motion became highly developed in Babylonia. Long study of planetary positions harnessed the principles of the Order. Prediction of planet position became possible. The logic of Greek thought added modern concepts to the mathematical base. Seleucus of Seleucia took hypotheses from Aristarchus and advanced the theory that the Sun was the center of the universe and the Earth revolved around the Sun and

rotated on its own axis. These concepts lived briefly but died quickly under the press of ancient Earth-centered traditions held holy by the men who studied the Heavens. Man was the important center of all.

From tradition came the lore of godly influences upon man. The gods walked with man on Earth. Men with the knowledge of the Order became godly unto themselves.

Religion answers questions. It guides man's behavior. Being able to see religion's gods in *their own* society above gave man a relevant pattern with which to observe life in his society below. The relationship allowed a complicated theory of cause and effect to evolve. One "society" affected the other. Man's identity gained a position within the Whole. He behaved in accordance with his gods.

Numbers captured the Order. Calculation became a medium to the divine. Man seized the cause-and-effect dogma through his observation and calculation and held it fast. If he could predict the movements of the gods, the gods certainly could predict the movements of man. Effects had been noted in natural phenomena: floods, famine, plenty, plague, the seasons; in social phenomena: the rise and fall of rulers, birth and death, sickness and cure, love and hate, peace and war. Astrology became the tool of merchants and kings. Man lived through his planetary gods.

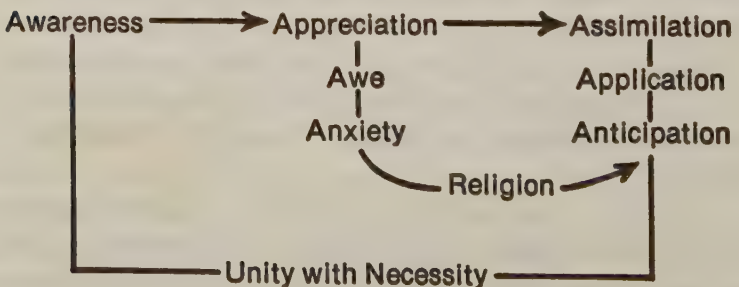
With the birth of Christ and other religious leaders, new concepts describing the gods were introduced. The sense of Necessity was anthropomorphized. God became

man and spoke of a Father. Occult laws of trinities and quadruplicities found echo in fresh teachings. Imagination and spirit were once again stirred in a new age to solve the meaning of man in the awesome natural order.

The quest to resolve the dualism of above and below always followed a pattern:

Awareness → Appreciation → Assimilation

Man becomes aware of the mystery. He experiences it physically or he senses it spiritually. Then he appreciates it: he gives his evidence form and value, stimulated by awe and anxiety. Then, he incorporates the forms and values into his life; he assimilates discovery into life in order to *use* the mystery for himself, *to assess his position and anticipate its change*. The whole process is a quest for unity with the Source, the endless flow, nirvana, the Father, the sense of necessity that binds the Order. Even in modern philosophy, the quest continues: objective idealism (Hegel), existentialism (Kierkegaard), synchronicity (Jung), the all-pervasive creative principle (Tillich).



Man is born into this process through his birth awareness. The mystery is relieved by his necessary death. Throughout the life—among lives—there are coincidences, happenings within time that relate in striking ways. Astrological observers took coincidences of many kinds and gave them value—appreciated them—and assimilated them into their lore of life, of man in his relationship with the Order. Lore became law through experience.

A particular planet-god in a particular area of the Heavens (the Zodiac: the “circle of animals”) seemed to bestow a particular blessing or trial upon men linked *by birth* to the planet or the Sign. Observers in any era were/are not pressed to find human beings linked by birth to similar experiences in time: of any thirty people, then and now, the odds are better than two to one that at least two of them have birthdays on the same date.<sup>1</sup>

Concepts of chance have developed perpetually from the earliest observation of male-or-female birth. Growing sophistication in the observation of chance was linked with the Heavens as observed correspondences between the planets and life occurrences accumulated. The Arabs, who were highly sophisticated in Astrology, went beyond their disciplined observational principles and experimentally tried to wed the perpetual element of chance with the positions of planets and men within the same Order. In the thirteenth century they even developed a calculator that cast horoscopes based on chance and Astrology

1. Above fifty people in the sample, the chance approaches certainty. Of the thirty-six presidents of the United States, for example: two were born on the same date (Warren G. Harding and James K. Polk) and three died on the same date (John Adams, James Monroe, Thomas Jefferson).

*without* observation or measurement: lots were drawn and the results determined arbitrary planet positions from which a horoscope reading was thought possible. The experimental premise was that chance, man's awareness of his relative position within the Order, and his applied number disciplines could animate the unity of the Whole.

Through millennia of observation, theory, experiment, and refinement, *Astrology has become a creation of understanding*. Its parts come from many epochs and many sources of thought. It is a body of knowledge (science) founded upon religious awareness, intellectual appreciation, and empirical assimilation.

### Who Were the Gods?

*The Sun.* ☉ The eternal circle, the arc of the Sun in the Heavens, and the Absolute flow of life-energy are symbolized in the circle. The center represents the place of man within cosmic life, experientially at the center of the system, the beneficiary of the solar influence.

Since the occurrence of man upon the planet, the Sun has been the center of man's awareness of life-energy. It immediately became the god of gods, observed in a daily rise and disappearance. The tension and cold of darkness were relieved by the Sun's next return. For the Sumerians, Utu was the father of all; for the Akkadians, Shamash; for the Egyptians, Ra was the creator of the world, the first king of Egypt. The Sun was Surya in Hindu India; Helios-Sol-Apollo to the Greeks and Romans.

The regular rising and setting of the Sun was accompanied by ritual celebration: exultation upon view, prayer



for return. The Sun lived within the rulers and divine teachers of men: from Pharaoh to the "Son of God." —In Egypt, the setting of the Sun symbolized the losing of life to the extent that the dead were buried in the west, were called westerners. Osiris, husband to his sister Isis, was the god of death and resurrection. The flow of life through light and darkness became a central theme in every religion upon Earth. Indeed, all life—the course of seasons, the regeneration of plant life, the rise and fall of man—is resurrection.

Arcanum XIX of Tarot philosophy depicts the Sun as man's development from birth within the manifest light of the world to the light of the world to come. —The Sun was the First, the Primal. Man *is* because of the Sun; the Sun is the light within him.

In our studies in Volume I, *Horoscope Construction*, and Volume II, *The Houses: Their Signs and Planets*, we saw how the Sun as ruler of Leo, the Sign natural to House V, illuminated the life-energy of man. Its placement within a Sign brought special characteristics to that energy. Its placement within a House illuminated the experiences of that particular area.

The light of the Sun affects the entire Order: the planets are children of the Sun. The inference about the "life" of the planets is made upon their relative distances from the Sun and the speeds of their orbits around the Sun (Volume I). Each planet receives this Sun's light in varying degrees. *The measurement of angles between the planets and the Sun determines the light relationship, the degree of illumination at any given*

*moment.* In Astrology, these angles of relationship are called *aspects*.

The Moon is full of the Sun's light at the Full Moon, when the Moon is directly opposite the Sun. An eclipse of the Moon occurs when the Earth is between the Sun and the Moon, and the light is blocked. An eclipse of the Sun occurs when the Moon is between the Sun and the Earth: the light is blocked from the Earth. —The cycle of the Moon shows us clearly the gradual increase of the angle of light reception from New Moon to the first quarter, to Full Moon, to the diminishing quarter, to New Moon again. In a very real sense, this gradual and regular increase and diminution of light received and reflected parallel symbolically the rising and setting of the Sun from man's point of view: birth and rebirth.

All bodies within the Order experience these angular relationships and changes within time. These aspects are the vitalization of the gods, their combat, their benevolence, their symbolic message for man on Earth who is also within the grand scheme.

In measuring solar aspects within a horoscope, we measure the relative strengths of the Sun and the planet in relationship with it. A weak Sun—whose light is perhaps deflected, blocked out, interfered with somehow through the geometric symbolism of the Order—will weaken the life-energy represented within the horoscope in terms of the Sun-Sign and the planet within the relationship, seen in the Houses occupied and ruled by the bodies, and in the bodies' individual meanings; a weak Sun will lower life vitality and affect character, personal worth,

mental acuity, emotional capacity, moral integrity, or bodily health (Houses I through VI, for example). Measurement and interpretation of the aspect will determine the degree of debilitation.

A strong Sun—whose light is reinforced, well received within the Order—will strengthen the character, the worth, the mental performance, the emotional expression, etc. The Sun-Sign center will be attuned to the harmony within the Order. The bodies within the relationship will blend their symbolism and the light will shine through and before man.

The Sun in any of the Fire Signs (Aries, Leo, Sagittarius) will tend to assertion, leadership, and influence; within the Air Signs (Libra, Aquarius, Gemini) to social energy, innovation and humanitarianism, and intellectualism; within the Water Signs (Cancer, Scorpio, Pisces) to emotional security, sex and regenerative power, sensitive receptivity; within the Earth Signs (Capricorn, Taurus, Virgo) to ambition, structure, and discrimination. —Positive or negative aspects to the Sun will appear to alter these family strengths: easy, effective or excessive, problematic manifestation.

The Sun within the modes (Cardinal, Fixed, Mutable) will express the initiative, steadfastness, and receptivity dimensions of expression through the *distribution* of energy determined by the aspects. —Positive or negative aspects to the Sun will appear to alter these modal strengths as well: effective leadership or tyranny; profitable structuring or stubbornness; beneficial sensitivity or vague passivity.

The miracle of birth worships the rise of the Sun. Its path and strength are preconditioned. The measure of its light is the measure of life. We pause in review every Sun's-day; there is nothing new under this Sun.

*The Moon.* ☾ The Moon reflects the light of the Sun and gives it form. The Moon's light (symbolic influence) is communicated to the human public through the Moon's orbit around the Earth. The Moon is the symbol of the personality's form. Evangeline Adams named the Moon "twin sister of the Sun."

In Arcanum XVIII of the Tarot, the Moon lights the way to the unknown. The light is a reflection only, hiding the mystery of substance. The Moon illuminates the darkness as reminder that full Sun energy is still alive and will return. —The Moon embodies the symbolism of man's environment and his *sensorium*. In its phases, the Moon "collects" the feelings and experiences in life and gives reflection through the personality to others.

The Moon is the focus of man's awareness of the Sun's life-energy. The Moon is recognition and applied light. It has great ability to change. It symbolizes the developmental presentation of man in full view within his society: the Self reflected to and from the public.

As ruler of Cancer, the natural Sign of House IV, the Moon symbolizes the feminine element: the security of the womb, the home, the emotions (the Sun, the masculine). The symbolism of personality form, public recognition, home and emotional security is brought to each of the Signs within the Element Families and is

distributed through the three modes. Again, the blends take place: a poor aspect relationship with the Sun diminishes the illumination of the symbolism. The personality may have difficulties, public recognition may suffer, home and emotional security may be threatened. A strong aspect relationship with the Sun reinforces this symbolism positively. The aspects would blend with the Moon's Sign and be seen focused primarily through the experiences suggested by the House positions of the Moon and the Sun.

Our Moon's-day follows the day of the Sun. The two lights together give form and cosmic identity to man. The dualism of male and female begins the birth of living awareness. Through the Moon, man sees the form of his light.

In the horoscope, we see the relationship of the Sun and Moon more clearly than if we were to look into the Heavens. We see both lights always since the horoscope depicts the whole vault-sphere of the Heavens.

Imagine the hundreds of years of observation that passed before the Moon's light was linked and measured for predictability with the unseen Sun! Imagine the mystery of the changes and the correspondences with tides and human behavior!

In analysis, in an instant, we see this relationship between these "gods" *within man*. The Moon collects a specific kind of Sun-light and gives it a particular kind of form (Sign) and distributes it a special way (mode and aspect) within certain individual experiences (House). The Sun in a Sign gives a genus of illumination to the

life-energy. The Moon in a Sign gives a species of manifestation to the energy's form.

A birth at New Moon, when the Sun and Moon are both in the same Sign, near one another in degree, represents a "new inspiration," a new, fresh light in the native. At the same time, the light of the former cycle has been extinguished; there is a momentary disappearance of the form, a weakness of its symbolism, before new strength is gained, fecundation is achieved.

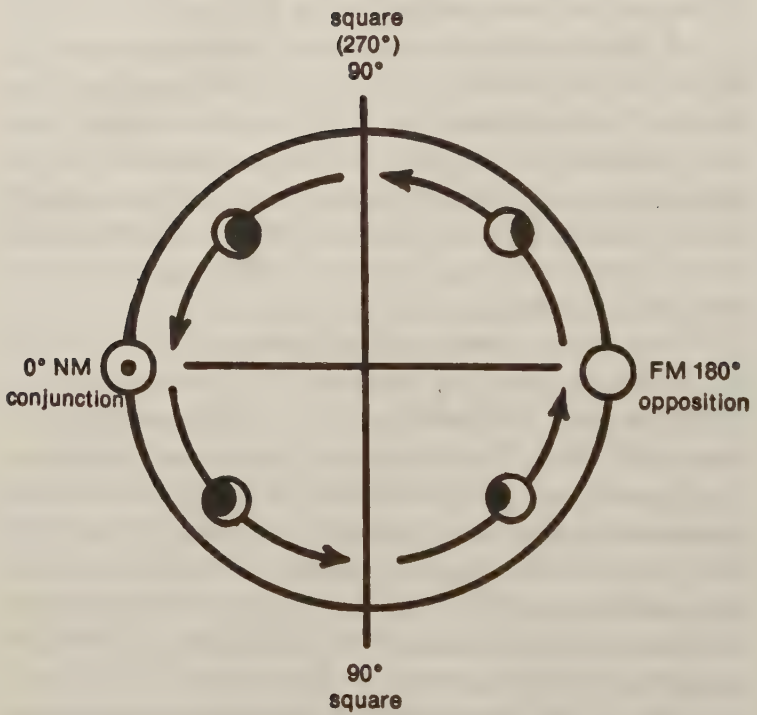
At New Moon, and when the Moon is approaching the new light, losing its *last* light entirely, there is an "incorporation of the need of the collectivity for a new birth of spirit...the symbolic personage who focuses upon himself a social drama...the saint, the martyr" (Dane Rudhyar). Karl Marx (also an eclipse), Sigmund Freud, Shakespeare, Queen Victoria, Gamal Abdel Nasser, Lyndon Johnson are some examples of famous people born at New Moon. They figured prominently in the bringing of new ideas to the world: Marx, communism; Freud, psychoanalysis; Shakespeare, drama; Queen Victoria, Victorianism; Nasser, modernization of the Arab world; Johnson, the Great Society. The service of these individuals in fulfillment of their lives suffered frustrations in parallel with innovation: Marx, death before publication of *Das Kapital*; Shakespeare, doubt of authorship; Victoria, criticism and social revolution; Freud, Nasser, and Johnson died before their visions were realized. —Too much should not be read from these random significances. It is enough to appreciate that the New Moon birth presents a focus of new light that will manifest in some innovative way within

man at his own level, and that this light may appear ahead of time or be extinguished before fruition.

A birth at Full Moon sees man in full awareness of the Sun's light. There is an objectivity and a stress upon relationship to others and to principles. At the same time, the opposition of the lights can create separation, a pull in opposite directions. The presidents John Q. Adams, Andrew Jackson, James Garfield, Warren Harding, and Harry Truman were all born at Full Moon; also Henry Ford, Isaac Newton.

The phases between these extreme points of New and Full Moons are also relevant. The New Moon light increases steadily to Full Moon. At the halfway point of its course,  $90^\circ$  from New Moon, the Moon appears to abandon dependence upon the New Moon light and seeks full awareness of the relationship at Full Moon. Then, with full light, the Moon begins to distribute fully its reflected light until a point  $270^\circ$  from the base of the New Moon or  $90^\circ$  away from Full Moon. Then, the Moon loses its light steadily and seeks renewal at New Moon.

The midpoints between conjunction (New Moon) and opposition (Full Moon) are called *squares* in Astrology. These are points of dynamic activity: the Moon leaves reliance upon one point and approaches reliance upon the next. The square is a point of tension and change. The squares and the points of conjunction and opposition create a grand cross, recalling the angles of the chart that begin the Angular Houses of the horoscope. The squares are the equal divisions, the "breaking" points within polarities (see page 14).



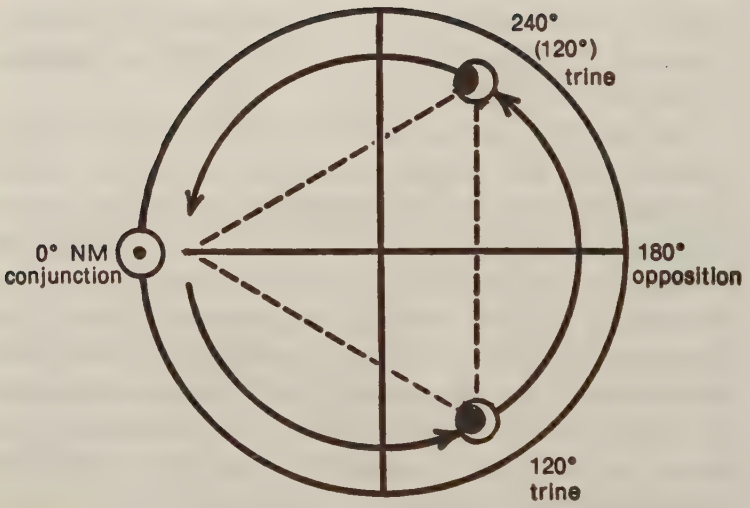


The squares and oppositions also recall the relationship between Signs of the same *mode*. Remember the drawings of squares in Volumes I and II: the four Cardinal, the four Fixed, and the four Mutable Signs help us to see at a glance when the Sun and Moon are square to one another, i.e., the Sun in Aries and the Moon in Cancer or Capricorn. The Moon in Libra would be Full, in opposition to the Sun in Aries.

In analysis, natives born at one of the squares of the Moon to the Sun exhibit the dynamic tension of this relationship. There is a determination, a sense of break-away and rebuilding. The light of the Full Moon beckons for those born at the first square; the light to come at the New Moon beckons at the closing square of the cycle. Examples of the first square type: Joseph Stalin and Charles de Gaulle who reconstructed their countries out of the tensions of war. Examples of the second square type: Martin Luther, Mahatma Gandhi, and Albert Einstein whose works were devoted to a vision of light to come, a breakaway from conventional awareness.

There are other observations within this cycle as well. Within the quadrants before and after Full Moon, there are points when, with full illumination, full distribution of the light begins. In relation to the New Moon point, the three points form an equilateral triangle...the "same" triangle that connects the three Signs in each Element Family (see page 16).

This triangular relationship is called a *trine*. Whenever the Moon exactly trines the Sun, both bodies will be in Signs of the same element. For example: the Sun in



**Aries and the Moon in Leo or Sagittarius.** The points of a trine are  $120^\circ$  from each other. Since the Moon is in the same Element Family as the Sun when in trine aspect, the light energy flows at its best. At the trine approaching opposition (Full Moon) there is an efficient intensification of self-development; at the trine departing from the opposition, there is an intensification of self-sharing, of dissemination.

These are the major aspects of Astrology: the conjunction, the opposition ( $180^\circ$ ), the square ( $90^\circ$ ), and the trine ( $120^\circ$ ). The trines are subdivided into two  $60^\circ$  aspects called *sextiles*. —The aspects are very easy to remember: the trine is a third of the whole circle; the sextile is a sixth; the square, a fourth. There are further subdivisions as well which we will study later.

These aspects were the geometric translation of planetary interrelationships. The *conception of quadrature* came from observation of the Moon. It was echoed in the four seasons of the year and the flow of man's life: at a life span of 28 to 30 years in ancient times, the quadrature of 7 became extremely significant in man's life and religion...as it is today. With further observation and theorizing, Saturn's orbit of 28 years around the Sun offered a parallel with man's life and the orbit of the Moon around the Earth in 28 days. —The concept of the positive trine (one-third of the circle) was reinforced by the linking of the three Signs of each element and numerologically by the quadrature of beneficent Jupiter's 12-year orbit.

*The development of aspects is the same for all planets.*<sup>2</sup> Any two planets begin theoretically in conjunction and break away from each other. At any birth-moment, they have an aspect between them. This aspect measures the "ways of the gods." Man *appreciates* the drama.

In Volume II, we saw that refocusing, crystallization, took place in the Angular Houses. These Angular Houses are *square* to each other, 90° apart in the basic, natural theory. The meaning of the square aspect captures this dimension of refocusing and crystallization. The square is followed by the trine or the sextile, the positive aspects. Within analysis we will learn that at the times of refocusing, man must usually sacrifice as he chooses between variables, as he climbs to another level of development. But the sacrifice (challenge of the square) leads to fulfillment (reward of the trine). In this way, man utilizes Astrology in his life; he *assimilates* the ways of the gods.

*Mercury.* ♀ The messenger of the gods is never more than 28° away from the Sun. Mercury symbolizes intelligence and exchange. The great astrologer Alan Leo named Mercury the "Thinker." Mercury is the light of the Sun transmitted with speed and specific flexibility.

The message of Mercury seeks audience. Mercury needs major aspect (relationship) to focus its brightness and resourcefulness. Mercury adapts its nature to whatever planet with which it creates an aspect: with the Moon, the intelligence gains intuition and fertility; with

2. The Sun and Moon are not planets. They are best referred to as *lights*. For ease of reference, Astrology names both planets and lights "planets."

Venus, social and artistic qualities; with Mars, nervous power and keenness; with Jupiter, judgment and understanding; with Saturn, depth and wisdom; with Uranus, unusual intellect and high nervous charge; with Neptune, an increase of fantasy and sensitivity; with Pluto, vague, troubled preoccupation.

When Mercury is positioned ahead of the Sun (in greater longitude), mental energy has more eagerness; behind the Sun (in lesser longitude), more deliberateness.

Mercury's diversity, articulation, and perception are given to Gemini; its discrimination and exactness are given to Virgo. These characteristics remain with the Signs ruled by Mercury, and Mercury carries its image to whichever Sign it occupies at the time of birth. Square aspects will *overdo* the image in terms of the related planet and the House each occupies. Trine aspects will create a similar blend in positive, efficient terms.

In the conjunction, the message of Mercury gains most focused audience. It blends totally; thought and action become one. The need is for education and disciplined refinement; the hope is for diversity of application; the danger is a loss of control.

*Venus.* ♀ Venus unifies through refinement: emotional reactions personalize experience and respond to reality. Never more than 46° from the Sun, Venus carries the Sun's light into man's sense of beauty and emotion. When the disorder of Mars is past, Venus restores peace and harmony. It is the planet of romance; Venus gives with no thought of taking; receives with little resistance.

The correspondence of Venus to luxury and sociability gives Venus rulership over possessions and pecuniary assets.

When Venus is in aspect with Mercury, speech may become oratory; the intelligence gains idealism. With the Moon, feelings are romanticized; with Mars, emotions gain heat; with Jupiter, rewards are expanded; with Saturn, love is delayed, hardened, or aged; with Uranus, love is given innovation; with Neptune, love is hidden or fantasized; with Pluto, emotions or resources are covered.

Venus seeks a mirror to gain depth of image and undisturbed comfort. Harmony with friends is a major outlet for Venus light. —The significances for personal worth and peace are given to Taurus; for balance and sociability, to Libra.

*Mars.* ☿ Mars is the next planet in order out from the Sun beyond the orbit of the Earth. It is the bridge to Earth and beyond; it follows the life-energy, the intelligence, and the feelings with *applied energy*. Man works through Mars, aware of thrust, potential for diversity, and related exchange with others. Within the image of Mars, man makes things happen.

Mars is the god of war: the self-defensive impulse, the incision of self-application, the heat of effort, the eruption of energy, the speed of attack.

Mars is a catalyst: in aspect with Mercury, keen, impulsive energy is blended with intelligence and the nervous system; with Venus, the emotions gain passion; with Jupiter, excess; with Saturn, a clash of principles;

with Uranus, temperament; with Neptune, reliance upon fantasy or charisma; with Pluto, force. Any aspect between Mars and the lights, the Sun and Moon, increases vitality: sheer life-energy and energetic thrust of the personality's form. The square aspects between Mars and another planet *increase* the energy to the point of possible disruption. Too much vitality and thrust can cause accidents and strife, overachievement.

Mars brings its direct energy dimensions to the Sign of its rulership, Aries. As co-ruler of Scorpio, the Mars energy works at its deepest: the vital source of regeneration, extrication, effort to regain position.

*Jupiter.* ♃ After the primal husbandry of the Sun and the motherhood of the Moon. Jupiter—Zeus—is the father of the attendant gods. The Greek legends about Zeus and his power recall the double-edged sword of Jehovah—mercy and justice. Jupiter is the largest of the planets and is second only to Venus in brightness. Alan Leo named Jupiter the “Uplifter.”

Jupiter symbolizes expansiveness, scope of enthusiasm, knowledge, honor, and opportunity. Venus corresponds to possessions, but Jupiter corresponds to fortune, inheritance, bonanza.

Jupiter brings the emphasis upon the higher mind, religion, law, extended travel of the mind and person to Sagittarius; as co-ruler of Pisces, Jupiter brings the highest levels of expansive, lofty awareness.

In aspect with the planets and lights, Jupiter expands the scope of reward, benefit, and opportunity. In a

demanding aspect (square or opposition), Jupiter's excess becomes problematic for man, for him to learn the discipline, efficiency, and economy of moderation. In aspect with the Sun or Moon, Jupiter contributes good fortune or the threat of excess; with Mercury, soundness of judgment; with Venus, grand reward or passive assumption of success; with Mars, gain through personal energies, self-enterprise or lavish ostentation; with Saturn, efficiency and inheritance or difficulties with management of assets; with Uranus, philanthropic inventiveness or unfocused efforts; with Neptune, expanded fantasy, religious accentuation; with Pluto, applications to the public at large, deep change in principles.

Jupiter presents *opportunity* within any aspect. The requisites for man to benefit from this opportunity are preparation and efficiency.

*Saturn.* ♄ For the ancients, long before the discovery of the outer planets (beyond Saturn: Uranus, Neptune, and Pluto), the planet Saturn was the end of the line. Its 28 to 30 year orbit corresponded to a reasonable life span in ancient times and echoed the relationship of the Moon's orbit around the Earth (28 to 30 days). Saturn was Chronos, *time*. Saturn was man's time on Earth, his ambition, his strategic delay, his wisdom toward fulfillment, his disappointments and frustrations. Positively, Saturn is the challenge to ambition within time.

Saturn's image is to attain perfection and self-fulfillment. The attributes of this quest include responsibility, respectability, precision, reserve. The



course is so unwavering that uncompromising, arrogant, tyrannical dimensions can also be manifested within man. Wisdom is to understand delay as a strategy for eventual fulfillment; patience with time.

In aspect with the lights and planets, the registration is always powerful. From the placement of Saturn alone, an astrologer can deduce a great deal about the identity. With the Sun, wisdom or arrogance, and a difficulty with men when Saturn and the Sun are square in a female horoscope; with the Moon, grand ambition and deep drive; with Mercury, intellect or disproportionate conservatism; with Venus, romance and gains from older, wiser persons...confined emotions, frozen assets; with Mars, clash or harmony between hot and cold, between impulse and delay; with Jupiter, austere mind or slovenly attitude; with Uranus, the relationship between innovation and convention; with Neptune, passivity or profit from sensitivity; with Pluto, great energy for broad reform and attendant rebellion.

The levels of Saturn are many. They range from miserly, suffering ego absorption to lofty, ministerial unity with the spirit of time. Saturn corresponds to the challenge of growth through ambition's fulfillment. In many ways, the whole horoscope follows Saturn's call. Saturn brings the focus of administration to the Sign Capricorn and, as co-ruler, the higher realms of inspiration to Aquarius. Life lessons are learned through the management of obstacles.

The words *I am* state man's being. The Sun is *am*; Saturn is *I*.

*Uranus.* ♅ The word Uranus means *Heavens*. In legends, Uranus was the father of Saturn. Saturn became jealous and killed his father so that no other offspring could appear. Uranus is beyond Saturn in orbit. Its image of inventiveness, often ahead of its time, is silenced by convention or extolled by public audience.

Alan Leo suggested that Uranus, the "Awakener," works through action (will), feeling, *and* thought. Its presence is electric; the flow of inspiration and the unusual is immediate. Often, the appearance of the unusual can influence sudden separation, change, and strategic innovation in life.

In positive aspect with the Sun or Moon, Uranus corresponds to the effective transmission of inspiration and innovation. In our modern time, inspiration and innovation are at a premium. The appearance manifested is one of great good luck through the workings of originality and individuality. In square or opposition to the lights: the nervous system absorbs the energy and struggles to give it outlet. With Mercury, there are intensifications of the nervous and intellectual powers; with Venus, an innovation and intensification of the romantic emotions and possibly the unusual application of aesthetic ideas; with Mars, extraordinary drive and drive tensions, often accompanying distinct separations from home, profession, and relationships; with Jupiter, there is an intensification of the ideas of intellect, humane philosophy, and convention; with Neptune, occult influences and/or rebellion at large; with Pluto, world reorganization.

Uranus rules Aquarius. Inventiveness and the

unusual are brought to the Sign. The genius of man serves his world. —Astrology is ruled by Uranus.

*Neptune.* ♆ Poseidon was the Greek god linked by the Romans to Neptune. When Ulysses was returning home from his travels, even with the protection of Zeus he was tormented and confused by Poseidon. —Neptune corresponds to the confusion of man, the chaos of his impressionability and emotions, the elements of self-deception and camouflage which follow man on his travels to fulfillment. Neptune rules Pisces, the ocean of man's receptivity.

Neptune's image ranges from fantasized self-indulgence to mystic rapport with other worlds. To fulfill a dream is the beauty promised; to gaze alone into a distorted mirror is the ugliness possible. The worlds of art and religion offer outlet to the expression of Neptune within man. The camouflage of real qualities is still present however, and an incisive structure of interplanetary relationships is necessary for the transcendental gifts to communicate themselves effectively.

When Neptune is placed in an Angular House of the horoscope, the registration will be in man's actions; in a Succedent House, in his feelings, his awareness of private resources; in a Cadent House, in his mind. In aspect with the Sun, dimensions of refinement, musical skill, and theatricality are possible...or self-delusion and charade; in aspect with the Moon, strange feelings and magnified intuition.

Neptune undermines clarity either for dissolution or

for deeper significance. "Neptune allows the soul to leave the body" (Alan Leo).

*Pluto.* ♇ In legend, Pluto was the ruler of the underworld, ruler of the dead. Pluto was the son of Saturn...perhaps a newer sense of time.

Pluto was discovered, came into world consciousness on January 21, 1930. Mars was opposite Pluto at that moment. The Sun had just entered Aquarius, the Sign of the age.

Theorists suggest that Uranus, Neptune, and Pluto are symbols and harbingers of epochs: the eighteenth, nineteenth, and twentieth centuries. The orbit of Neptune is twice, and that of Pluto three times the length of the orbit of Uranus.

Pluto deals with the collectivity of the world, the masses. Pluto, as symbol of regeneration, represents upheaval and rebirth. In the individual horoscope, there are correspondences to turn the Self inside out to find the new center and full awareness of potential: psychoanalysis, political dogma, nihilism; maturation, evolvment, metamorphosis.

Pluto is the symbol of reincarnation, the death necessary for rebirth. In the individual horoscope, Pluto corresponds to deep change within the awareness of society, deep change in relation to the collectivity, *the sense of personal perspective.*

Pluto has been assigned rulership of Scorpio.

In Volume I of this series, we saw that for the ancients the planets ruled two Signs each. Mercury ruled

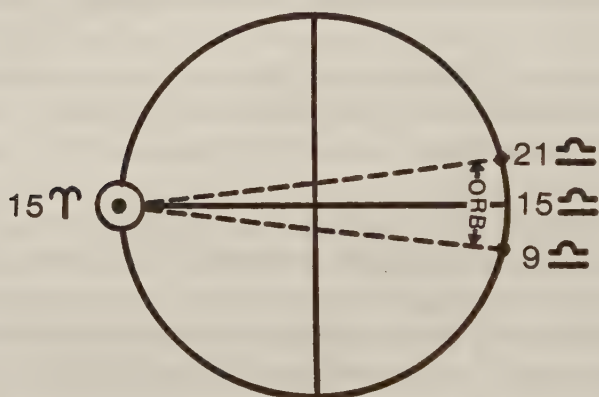
Gemini and Virgo; Venus ruled Taurus and Libra; Mars, Aries and Scorpio; Jupiter, Sagittarius and Pisces; Saturn, Capricorn and Aquarius. The Sun ruled Leo; the Moon ruled Cancer. In our study, we saw that the planetary characteristic assigned through religious and philosophical conjecture in ancient times gave the developing Zodiac Signs their significances. The planet-god seemed to bestow its characteristic blessing or challenge most vividly when in a particular area of the Heavens. The planet "ruled" the area(s).

The intrinsic quality shared by the two Signs ruled by one planet varied slightly between the Signs: Mercury is dualistic in Gemini, discriminating in Virgo; Venus is more personal in Taurus and more social in Libra. Uranus, Neptune, and Pluto have relieved the double rulerships of Saturn, Jupiter, and Mars. —Theorists anticipate the eventual discovery of two more planets to relieve Mercury and Venus as well and fulfill still another symmetry, still another dimension of the natural order.

The planets are harnessed within the Order and continuously make aspects (relationships) with one another. These aspects give *qualities* to the synthesis of manifested energies. The relationships are given actual life in experience through reference to the Houses. —All within the Order, each body is always in some relationship with all other bodies. This is the justification of subdivided (minor) aspects and *orbs* of influence.

*Orb.* If the Sun is at 15° Aries and Saturn is at 15° Libra, the two are in exact opposition. Astrology

allows orbs of influence, margins of application to aspect measurement. With the Sun in  $15^\circ$  Aries and Saturn anywhere between  $9^\circ$  Libra and  $21^\circ$  Libra, the two are still "in opposition." The orb extends plus or minus  $6^\circ$ .



*An orb of  $6^\circ$  is suggested as a good rule of thumb to help order aspect measurements. Much more will be studied about orbs later in this series.*

If Mars were at  $9^\circ$  Capricorn and Jupiter at  $5^\circ$  Cancer or  $11^\circ$  Cancer, the two would be in opposition. If Jupiter were at  $7^\circ$  or  $9^\circ$  or  $3^\circ$  or  $15^\circ$  Aries, the two would be in *square* (two Cardinal Signs, not opposites).

If Mercury were at  $3^\circ$  Pisces and Mars at  $9^\circ$  Gemini, the two would be in square (perfect square between the two Mutable Signs would be Mars at  $3^\circ$  Gemini or Mercury at  $9^\circ$  Pisces; the orb of  $6^\circ$  plus or minus extends the aspect).

If the Sun were at  $15^\circ$  Capricorn and Uranus at  $10^\circ$  or  $17^\circ$  or  $20^\circ$  Taurus (any degree between  $9^\circ$  Taurus and  $21^\circ$  Taurus), the two would be in *trine* (both of the same element).

*The Signs are the key to swift detection of aspects; degrees are rarely counted!* The aspect is seen immediately through the element and mode, and the degree of each planet's position is compared one with another for orb of application. Reading aspects swiftly is learned gradually through careful work with actual horoscopes. Chapter 4 begins our work with full synthesis and aspect measurement.

*Minor aspects.* The square is divided into the semisquare aspect of  $45^\circ$ . There is the quincunx of  $150^\circ$ , the sesquiquadrate of  $135^\circ$ , the semisextile of  $30^\circ$ . These aspects are embellishments in analysis. They often corroborate deductions made from the major aspects. We will not study them specifically, but they will fall into place with familiarity with the major relationships.

There are further aspects of esoteric significance: the viginitle ( $18^\circ$ ), the quindecile ( $24^\circ$ ), the quintile ( $72^\circ$ ), the biquintile ( $144^\circ$ ), etc. It is clear that, theoretically, there are aspects at all times between bodies within the Order. The premise is valid, and the astrologer finds his own way through the major aspects and their orbs that cover the circle. Then he learns to look to other special points for confirmation of his major deductions. The ultimate is within occult descriptions of each degree's significance (studied in a later volume).

On pages 31 through 35 is a table, the "Spectrum of Rulerships." This will help to order the "meanings," the

associations of the planets. The listing of all possible associations would be endless. Note the extension of the basic planet significance and theorize further specific meanings, associations of your own. For example: you should feel it natural to suggest that Neptune "rules" a veil, that Mars "rules" a knife, that Mercury "rules" books, contracts, that Saturn "rules" selfishness, economy, that the Moon "rules" milk, everyday affairs, etc. In highly detailed analysis, these specific items symbolized by the planets become important, i.e., choosing a profession.

Learning the "meanings" of a planet is *not* a task of memorization. Careful thought and reasoning will provide the "feel." As with the ancients studying their gods, observation brings awareness, study brings appreciation, and experience allows assimilation.





SPECTRUM OF RULERSHIPS

|                 |   |   |
|-----------------|---|---|
| <p>Symbolic</p> | <p>☉<br/>                 The Sun<br/>                 Life-energy<br/>                 male<br/> <i>Leo</i></p>  | <p>☾<br/>                 The Moon<br/>                 Personality form<br/>                 female<br/> <i>Cancer</i></p>   |
| <p>General</p>  | <p>Vitality<br/>                 Illumination of character<br/>                 Authority<br/>                 Love<br/>                 the Male; men</p>  | <p>Change<br/>                 the Public<br/>                 Focus of experience<br/>                 Mood<br/>                 the Female; women<br/>                 the Maternal<br/>                 the Home</p>   |
| <p>Specific</p> | <p>Energy<br/>                 Ego<br/>                 Magnanimity<br/>                 Royalty<br/>                 Influence<br/>                 Faith<br/>                 Honor<br/>                 Theatre<br/>                 Loyalty<br/>                 Children<br/>                 Reputation</p> | <p>Public Opinion<br/>                 Alcohol, fluids<br/>                 Menstruation<br/>                 Peacefulness<br/>                 Maternity<br/>                 Dreams<br/>                 the House<br/>                 Rhythm<br/>                 Merchants<br/>                 Motivational Concept</p> |
| <p>Medical</p>  | <p>Heart<br/>                 Spine<br/>                 Right eye of male<br/>                 Left eye of female</p>  | <p>Stomach<br/>                 Breasts<br/>                 Digestion<br/>                 Right eye of female<br/>                 Left eye of male</p>   |



## SPECTRUM OF RULERSHIPS

| Symbolic | ♿<br>Mercury<br>Intelligence<br>neuter<br><i>Gemini-Virgo</i>   | ♀<br>Venus<br>Aesthetics<br>female<br><i>Taurus-Libra</i>   |
|----------|---|---|
| General  | Alertness<br>Nerves<br>Understanding<br>Diversity<br>Communicating<br>Activity<br>Travel<br>Near relatives  | Beauty<br>Ease<br>the Arts<br>Sociability<br>Possessions<br>Romance<br>Marriage<br>Values             |
| Specific | Indecision<br>Writing<br>Speech<br>Talkativeness<br>Humor<br>Opinion<br>Handiwork<br>Mental facility<br>Accounts, detail<br>Vehicles<br>Contracts | Artistry<br>Luxuries<br>Parties<br>Love interest<br>Femininity<br>Reward<br>Cash<br>Jewelry<br>Sweets |
| Medical  | Anxiety<br>Lungs<br>Shoulders<br>Arms<br>Hands<br>Diet  | Neck, chin<br>Throat<br>Vocal chords<br>Hymen<br>Hemorrhoids<br>Bladder<br>Hair                       |

## SPECTRUM OF RULERSHIPS

|          |  |  |
|----------|--|--|
| Symbolic | <br><b>Mars</b><br>Applied energy<br>male<br><i>Aries</i> | <br><b>Jupiter</b><br>Expansiveness<br><i>Sagittarius</i> |
| General  | Accident<br>Force<br>Sex<br>Danger<br>Executiveness<br>Mechanics<br>Speed<br>Upheaval  | Enthusiasm<br>Opportunity<br>Extravagance<br>Legality<br>Religiousness<br>Knowledge<br>Wealth<br>Internationalism                          |
| Specific | Heat<br>Anger<br>Surgery<br>Destruction<br>Courage<br>Weapons<br>Enforcement<br>Military<br>Violence<br>Antagonism                         | Success<br>Judgment<br>Gluttony<br>Commerce<br>Inheritance<br>Education<br>Hope<br>Athletics<br>Publication                                |
| Medical  | Fever, Inflammation<br>Headaches<br>Skull<br>Face<br>Arteries  | Liver<br>Thighs<br>Diabetes  |

SPECTRUM OF RULERSHIPS

|                 |  |  |
|-----------------|--|--|
| <p>Symbolic</p> | <p><br/>                 Saturn<br/>                 Crystallization<br/><br/> <i>Capricorn</i></p>   | <p><br/>                 Uranus<br/>                 Invention<br/><br/> <i>Aquarius</i></p>  |
| <p>General</p>  | <p>Ambition<br/>                 Conservatism<br/>                 Delay<br/>                 Sorrow<br/>                 Wisdom<br/>                 Concentration<br/>                 the Father<br/>                 Elders</p>  | <p>Innovation<br/>                 Suddenness<br/>                 Unusualness<br/>                 Adventure<br/>                 Astrological<br/>                 Separation<br/>                 Genius</p>  |
| <p>Specific</p> | <p>Colds<br/>                 Frustration<br/>                 Materialism<br/>                 Envy<br/>                 Lands<br/>                 Mines<br/>                 the Past<br/>                 Time<br/>                 Restraint<br/>                 Insurance</p> | <p>Divorce<br/>                 Spontaneity<br/>                 Modernity<br/>                 Intuitive intellect<br/>                 Electricity<br/>                 Invention<br/>                 Air travel<br/>                 Communications<br/>                 Research<br/>                 Aberrance</p> |
| <p>Medical</p>  | <p>Knees<br/>                 Skin; bones<br/>                 Spleen<br/>                 Teeth<br/>                 Hearing</p>  | <p>Ankles<br/>                 X-rays</p>  |

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## 17

# Planets in the Signs

In an effort to understand the nature of all things, man defined all of his world within the four elements: Fire, Air, Water, and Earth. The Persians, when they adopted the Zodiac into the religion of Zoroaster, associated these elements and their ancient lore with the constellations. In Greece, Empedocles, Plato, and Aristotle formalized the theory of the elements within philosophic thought. Ptolemy ordered the elements (the *roots* of things) and the Signs of the Zodiac as we work with them today.

Ptolemy was the last of the brilliant Greek cosmologists. He was an astronomer, an astrologer, a geometrician, and a geographer. He worked in Alexandria between A.D. 127 and 150. His texts, especially *Almagest* and *Tetrabiblos*, dominated all cosmic thought and geographical study for over 1,500 years.

Ptolemy took the basic four elements—Fire, Air, Water, Earth—and assigned four basic qualities to them: heat, cold, wetness, and dryness. Any substance would usually possess more than one element in various combinations. In interaction, water nourishes earth, air fans











fire, fire scorches earth, air dries water, etc. Similarly, the planets were given these qualities also: the Sun heats and dries, the Moon moistens, Mars heats, Saturn dries and cools, Venus and Mercury warm and humidify, Jupiter heats and humidifies.

In modern psychological thought, these qualities and the reliance upon the elements seem awkward. Heat meant/means energy as well as temperature, a positive subjective feeling. Moisture refers to fertility, softness, fluidity. Dryness refers to sterility, passivity; coldness, to lifelessness and barrenness. The unique characteristics of the planets and Signs were ordered along these lines. The characteristic meanings for us today are our own projections—psychological and sociological—that correspond to the manifestations of today's behavior and life. The interpretations of life are made by those living within it. The "roots of things" do not change—only our observation and articulation of them. In Astrology, the group mind works with the patterns of the Heavens and planets just as the ancients observed them...but recognizes increasingly evolving qualities.

Our rich inheritance is Ptolemy's assignment of the Signs of the Zodiac to the elements. In Volumes I and II of this series, the key chart was discussed often. It orders the Fire Signs (Aries, Leo, Sagittarius), the Air Signs (Libra, Aquarius, Gemini), the Water Signs (Cancer, Scorpio, Pisces), and the Earth Signs (Capricorn, Taurus, Virgo) within the Element Families and the Mode Families.

We have learned that the Signs of the same element connected within the horoscope form triangles (trines) and



|       | Cardinal  | Fixed   | Mutable   |
|-------|---|---|---|
| Fire  |  |  |  |
| Air   |  |  |  |
| Water |  |  |  |
| Earth |  |  |  |

that the Signs of the same mode connected within the horoscope form squares and oppositions (double squares). The Signs develop tension when they relate within the same mode (squares).

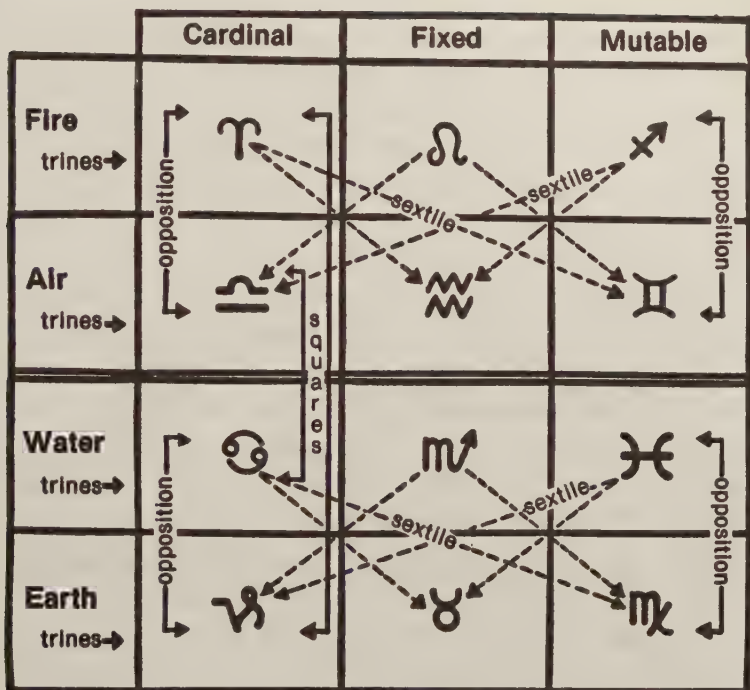
- Aries-Libra (opposition). Fire and Air: the Air fans the Fire...and can extinguish it; the Fire consumes the Air. The social thrust of Libra stirs exposure of the individual but may obliterate him through relationships (two concepts of initiative).
- Aries-Capricorn (square). Fire scorches the Earth. The impulsive thrust of Aries individualism can clash with the cold, solid, practicality of Capricorn.
- Cancer-Capricorn (opposition). Water nourishes the Earth. The wetness of Cancer emotionalism can soften the Capricorn dryness but may wash its essence away.

- Pisces-Gemini (square). Water is dried by Air. The emotional receptivity of Pisces can clash and lose value within Geminian intellectual criticism and swift utilization (two mutable concepts of reaction).
- Scorpio-Leo (square). Water extinguishes the Fire. The emotional depths and regenerative process of Scorpio work against the Leonine fiery assumption of stature (two fixed concepts).

It must be clear that *there is harmony (trine) within elements and tension (square) between modes.*

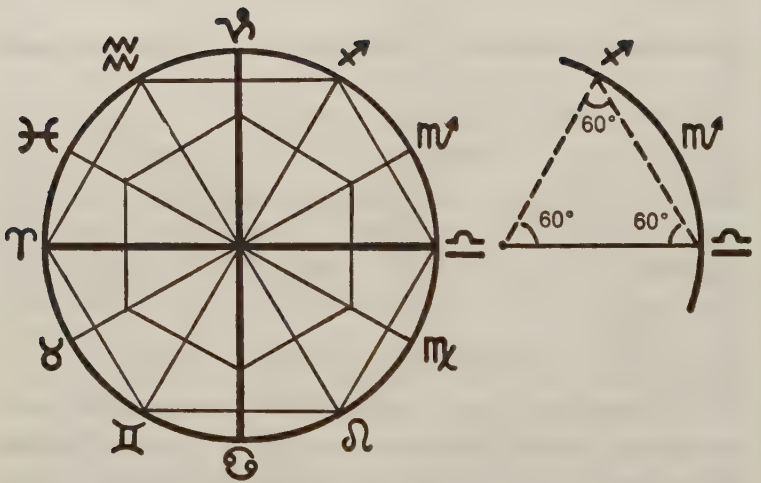
The sextile aspect (60°) accomplishes a partial blend between companion, cooperative elements—Fire-Air, Water-Earth. The sextile is formed from one Sign to the Sign two Signs away: Aries to Gemini or, in the other direction, Aquarius. The sextiles are as easy to see in the horoscope as are the squares and trines. The blend between elements is seen in the key diagram also: sextiles are formed between the Fire and Air Families and the Water and Earth Families, relating any one Sign *and the two Signs in different modes in the companion Element Family.*

The maze of lines within the table on page 41 is only to show the Order, to accustom your eye to the inter-relationships of the Signs even further. Sextiles are contained within the paired elements and, when connected within the horoscope circle, form hexagons, as illustrated on page 42.



The planets were given rulership over certain zones established in the Heavens. In their work to codify the drama as precisely as possible, the ancients deduced that planets had particular strengths and weaknesses in Signs *in addition to the Sign(s) each ruled.*

Two premises provided the base for determining the *Dignities* of the planets. The first: a planet in the Sign opposed to its Sign of *rulership* would be farthest away from its own domain. It would be dysfunctional, *in its Detriment*. The second: a planet in a Sign particularly suited to



Sextiles  
Every Other Sign

its own quality, but not the Sign it ruled, would be well received and would be unusually "expressive." It would be in its *Exaltation*. Additionally, a planet in a Sign not particularly suited to its own quality would be poorly received and would express itself poorly. It would be in its *Fall*.

*The Sign of Detriment for any planet is the Sign opposite the Sign the planet rules.* For example: the Moon, ruler of Cancer, is in its Detriment in the opposite Sign, Capricorn; Mercury, ruler of Gemini and Virgo, is in its Detriment in the opposite Signs, Sagittarius and Pisces.

The Sign of *Exaltation* for any planet must be learned. With only a little familiarity with the planets within the Signs, the Signs of Exaltation become obvious. —*The Signs of Fall are opposite the Signs of Exaltation.*

With the discovery of Uranus and Neptune, double rulerships by Saturn and Jupiter were relieved. Pluto has not been observed long enough for reliable assignation. On page 44 is a table of planetary Dignities.

When a planet is dignified by being in the Sign it rules or in its Sign of Exaltation, the planet performs more to its positive nature and meaning. Additionally, when a planet is placed near the Mid-Heaven or in an angle of the horoscope it is said to be *accidentally dignified*.

When a planet is debilitated by being in the Sign opposite the Sign it rules (its Detriment) or in its Sign of Fall, the planet performs more to its negative nature and meaning.

With knowledge of Sign characteristics and their grouping by families, clarified by House manifestations

## Planetary Dignities

|         | Rules           | Detriment             | Exaltation | Fall      |
|---------|-----------------|-----------------------|------------|-----------|
| Sun     | Leo             | Aquarius              | Aries      | Libra     |
| Moon    | Cancer          | Capricorn             | Taurus     | Scorpio   |
| Mercury | Gemini<br>Virgo | Sagittarius<br>Pisces | Virgo      | Pisces    |
| Venus   | Taurus<br>Libra | Scorpio<br>Aries      | Pisces     | Virgo     |
| Mars    | Aries           | Libra                 | Capricorn  | Cancer    |
| Jupiter | Sagittarius     | Gemini                | Cancer     | Capricorn |
| Saturn  | Capricorn       | Cancer                | Libra      | Aries     |
| Uranus  | Aquarius        | Leo                   | Scorpio    | Taurus    |
| Neptune | Pisces          | Virgo                 | Leo        | Aquarius  |
| Pluto   | Scorpio         | Taurus                | —          | —         |

through the natural placement of Signs around the horoscope circle, and with knowledge of the planetary characteristics, including their dignities and debilities, we can now create the blend between planet and Sign, adding to the Sun-Signs of Volume I. A planet is always in a Sign. It may be in a Sign that is reinforcing or combatant to its own nature. The planet always represents a blend, a synthesis of its nature and its Sign position. Then, relationships with other synthesized planets are seen at a glance and translated through the experiences of the Houses to complete identity analysis.



*The Moon: personality form, change, emotion, female, coldness; psychodynamically: the reigning need.*

☾ in ♈ The sensitivity and changeability of the Moon react strongly within the Cardinal Fire Sign. There is the possibility of temper and the need for forceful personality projection. The outward Self can hide the fire, but its strength and power appear in the working out of personality through experience. There is a possibility of nervous tension. With supportive aspects, quick decision and quick assertion can be molded into a leadership thrust. Often, the Moon in Aries is overcompensating for inferiority feelings from elsewhere in the horoscope. The overtly expressed self-image or the covertly held dream is to be “number 1”. Impressions come and go swiftly; mistakes are easily forgotten; lessons are difficult to learn.

Famous people with the Moon in Aries: Henry VIII, Charles de Gaulle, Bette Davis, Leonard Bernstein, Marlon Brando, Jacqueline Onassis.

☾ in ♉ The Moon is exalted in Taurus. Impressions are held with extreme obstinacy. It is difficult to make a person with Moon in Taurus change his mind. The impression of self-contentment can overcome the personality under difficult aspects. The external show is gracious and charming, and the status quo too easily resists change and growth. The Moon is too comfortable within the structure of Taurus and its ruler Venus. New ideas are not easily forthcoming. Things are the way they are.

(Shakespeare, Greta Garbo, Adlai Stevenson, Liberace)

☾ in ♊ The changeable Moon may react nervously within Gemini, but the mental qualities can excel. Cleverness shows. The personality *communicates* itself in ways determined by the aspects. Articulation, wit, imagery, flexibility, jack-of-all-trades, traveler, abbreviation. The mind needs to lead the emotions. Enough's enough; what's next?

(G.B. Shaw, Walter Winchell, Herbert von Karajan, Jack Benny)

☾ in ♋ The Moon rules Cancer. The senses and emotions will be heightened; the changeability will be less, with security found. The home will be very important and the native will take himself quite seriously.



Powerful intuitions give a self-assurance that is difficult to make understood by others. This position is meditative. Contentment can work against externalization and exploration. For women, this position is so content as to suggest passivity and dangerous impressionability. One wants warm hearts and gentle people. The mother image is very strong in women and for men.

(Stephen Foster, T. Roosevelt, F.D. Roosevelt, Dr. Benjamin Spock, Pat Nixon)

☾ in ♌ In Leo, the Moon is in the Sign of the Sun. The light redeems the Moon from dangerous contentment and meditative passivity; the Fixed Sign stabilizes the changeability. The self-esteem is a high tower of authority. The struggle to live up to this projected image can be difficult. A sense of drama is needed within experience, theatricality. Ostentation is possible; a "king complex." Living up to the publicity—usually with a strong mate in attendance—is the challenge to the personality. I am my light.

(Mahatma Gandhi, Mao Tse-tung, Evangeline Adams, Charles Atlas, Peter Ustinov, Barbra Streisand)

☾ in ♍ The Sign of Virgo emphasizes the coldness of the Moon but also increases the acuity of the impressions, mind, and senses. The restlessness of Gemini is displaced by the practicality of Virgo. Intelligence, usefulness, and fastidiousness are the themes. The need is to be of service, to work at what one does best.

(Joseph Stalin, Winston Churchill, Hirohito, Andrew Carnegie, John F. Kennedy, Sammy Davis, Jr., Edward Kennedy)

☾ in ♎ The Moon in Libra is a Cinderella position. The aesthetic perceptions are increased. Relationships become the source of personality reflection. The self-image is one of refinement and grace. The outward expression is one of high charm. With difficult aspects this can be changed, of course, and perhaps only cold, balanced judgment remains. One appears privileged within the world and needs that reinforced.

(Marie Antoinette, Frederic Chopin, Gloria Swanson, Katharine Hepburn, Maria Callas)



☾ in ♏ The Moon is in its Fall in Scorpio. The senses and emotions come to the surface. One needs to be thought deep and profound, yet the spirit can often be led by the body to easily follow the sensual. There is a force of will that cannot be shaken. "I am what I am...but no one knows my purpose." There is an ever-present rationale that needs protection by a sometimes rough, sarcastic show. The potential for success is great when control and discipline are learned.

(Louis XVI, Harry Truman, Dwight D. Eisenhower, Charlie Chaplin, Elizabeth Taylor, Julie Andrews)



☾ in ♐ Impressions not only gain focus in Sagittarius, but the need to be shared, propelled into public awareness. The intelligence is clear and extremely

refined. There can be a touch of the sublime, a loftiness of inspiration. Goals sometimes are too high for the energy and the reinforcement of fulfillment is rare. Practicality is the anchor to apply the soaring spirit.



(Victor Hugo, Charles Dickens, Lewis Carroll, Johannes Brahms, Pablo Picasso, Lawrence of Arabia, Albert Einstein)

 in  The Moon in Capricorn is in its Detriment. Authority and administration of the Will and emotions are the prime needs. Strength is called from throughout the horoscope to follow the drive for recognition and success. Ruthlessness is entirely possible, justified by the goal.

(Napoleon I, George Washington, Abraham Lincoln, Adolf Hitler, Joe Louis, Spiro Agnew, Robert Kennedy, Lee Harvey Oswald)

 in  The humanitarian and religious instincts gain great importance. The Moon loses changeability in this Fixed Sign. This is the position of the social theorist. The need at any level is to improve situations. Innovation and genius are possible with particularly strong aspects. For the Moon in Aquarius, the way is wide open for grand service to the world, in thought or deed.

(Dante, Richard Wagner, Mary Baker Eddy, Henry Ford, Richard Nixon)

 in  Optimism and romanticism. Evangeline Adams suggested that Don Quixote had his Moon in

Pisces. The dream of truth and honor; the fantasy of Shangri-la brought to life and given form. The personality is tuned in to inspiration that can build rich wisdom when strengthened by aspects within the horoscope. Impressionability can be given significance. Private suffering corroborates known truths. The feelings need audience and form.

(Benjamin Franklin, Robert Louis Stevenson, Edgar Allan Poe, Duke of Windsor, Oscar Hammerstein, Martin Luther King)



*Mercury: intelligence, exchange, diversity.*

☿ in ♈ Mercury takes on the brightness, impulse and fire of Aries. The intelligence needs vigorous thrust. The nervous system and the sense impressions are keenly alert. Passion and temper are the fuels fed into the aspects made by Mercury in Aries. Sheer brilliance is possible, or nervous, anxious, personal slavery to whim. Harmony is sought; the “sparks” seek appreciation and application.

(Copernicus, Marconi, Adolf Hitler, Charlie Chaplin, Marlon Brando, Peter Ustinov)

☿ in ♉ In stolid Taurus, Mercury is completely different from when it is in Aries. The intelligence becomes slower, more patient, more structured. There is a resistance to new ideas or, when favorably aspected, a solid cooperation with them along one's own thought-out

lines. Thorough construction gives freedom to the careful innovation of Mercury in Taurus.

(Richard Wagner, Queen Victoria, Richard Strauss, John F. Kennedy, Bob Hope, Barbra Streisand)

♃ in ♉ In the Sign it rules, Mercury's changeability, vacillation, and diversity are most pronounced. The intelligence and communication abilities are constantly at work. Duality challenges the senses and the whole system. With bad aspects, the nerves get out of hand; with good aspects, the energy gains foundation and builds a strong, critically self-assured projection of intelligence.

(Karl Marx, Brigham Young, Harry Truman)

♃ in ♋ The "wetness" of Cancer emotionalism and feelings for security floods the brightness and swiftness of Mercury. The senses need to be romanticized. The intuition can be tied to the intelligence remarkably through reinforcing aspects. With inhibiting aspects, there can be a poor memory, a shallow acknowledgment of the feelings. Mercury needs support within Cancer.

(Alfred Lord Tennyson, Stephen Foster, G.B. Shaw, Jack Dempsey)

♃ in ♌ In Leo, the intelligence is linked with the heart. The mechanics of thought are warmed; exchange and diversity gain freedom since they are secure. The senses know the dignity of the thoughts. With supportive aspects, the senses that guide intelligence and reaction

become noble and proud. With some aspects, there is a weakness within the self-esteem that fools the Self but not others.

(Goethe, Benito Mussolini, Helen Keller, Jacqueline Onassis)

♃ in ♍ Mercury rules or is exalted in Virgo. The intelligence and diversity take on more critical, discriminating meanings in Virgo than in Gemini. There can be a prudishness or a self-subservience about the senses or the role of work and service within relationships. The mind needs to work dispassionately, at a distance. With some aspects, a superb development of detached intellect is possible. The "rules" too easily intrude on personal, free-spirited communication. Yet, if the senses and emotions are reinforced within the rest of the horoscope, the mind can triumph in form and detail and become the vanguard of the entire personality.

(H.L. Mencken, George Gershwin, Truman Capote)

♃ in ♋ A refined aesthetic dimension is brought to the intelligence. The mind can balance alternatives well, when supportively aspected, or vacillate and delay until some sensory intuition dictates the proper course. The ambition to triumph intellectually is present, but support from elsewhere in the horoscope is needed to give the energy necessary for the work and effort involved. The tendency is to peaceful balance. The nervous system can be jarred when the mental perception of the balance of

things is upset. There is a sensitive reaction to surroundings. Gentleness or fussiness is prelude to bright achievement or frustrated effort.

(Dwight D. Eisenhower, Ingrid Bergman, Shirley Temple Black)

♃ in ♏ Here the acuteness of mind becomes "fierce, like a two-edged sword," observed Evangeline Adams. One has "the uncanny faculty of knowing exactly where to wound." —The skepticism, emotional sarcasm, and perhaps an intolerance of others' views influence the mental attitude. With certain aspects within the horoscope, the mind can plumb the noble depths of Scorpio significances and gain the dimensions of regenerated, inspired brilliance. From its depths to its heights, the mind needs to carry with it an unyielding posture in this Fixed Sign: stubbornness or sure foundation; the fanatic or the monument.

(T. Roosevelt, Mahatma Gandhi, Pablo Picasso, Joseph Goebbels, Winston Churchill, Lee Harvey Oswald)

♃ in ♐ Mercury is in its Detriment in Sagittarius. The diversity, speed, and brightness of Mercury are overdone in Sagittarius. The mind and nervous system reach too high too quickly. Flightiness. The speed is so great as to create illusion. The speed invites mistakes. The thoughts and conversations are repeatedly interrupted. Sentences climb over each other. With stabilizing aspects (from Saturn, for example), the mind and nervous

sensitivity can profit from the high reaches and glean enormous wisdom. Without stabilization, one will miss the obvious and never know the rewards of reflection, preparation, and self-control. Evangeline Adams wrote: "Mercury without Saturn is like an egg without salt!"

(Mao Tse-tung, Charles de Gaulle, Francisco Franco, Robert Kennedy, Sammy Davis, Jr.)

♃ in ♄ Mercury gains much influence from Saturn through position in Saturn's Sign, Capricorn. Gravity, sobriety, understanding, and administrative power are brought to the intelligence. "One can hear the grass grow" (Grant Lewi). Awareness and evaluation are constantly at work. Diplomacy and careful investigation build a show of intelligence that is mature and strong. There is a need continually to build observations into a formidable presentation. Under difficult aspects, the nervous system can be stirred to make a mania of awareness and detailed perception, to implode depressingly.

(Charles Dickens, Jesse James, Goering. Woodrow Wilson, General Douglas MacArthur, Richard Nixon)

♃ in ♒ With Uranus, Saturn still shares rulership of Aquarius. The influence of Saturn will again be brought to Mercury in Aquarius, but even more constructively than in Capricorn. Aquarius is an Air Sign, and the speed of Mercury assimilates the significances well: the intelligence and interests need application to humanity, to the abstract as opposed to the practical. An element of inventiveness is introduced. The senses and intelligence, the



versatility and the inspiration work together very well.

(Wolfgang Mozart, Benjamin Franklin, Thomas Edison, F.D. Roosevelt, Adlai Stevenson, Martin Luther King, Edward Kennedy)

♃ in ♓ Mercury is in its Fall in Pisces. The mind is influenced strongly by sense impressions. The receptivity can be extreme. There is an inner knowing that can work with great active assurance or weak, passive malleability, depending upon the aspects within the horoscope. Sense impressions are remembered. Instinct needs to dominate. The internal emotional sureness can distort the external mental awareness. When balance is achieved, the registration is inspirational.

(Charles Darwin, Abraham Lincoln, Houdini, Elizabeth Taylor)



*Venus: the aesthetic, romance, values.*

♀ in ♈ A rash impulsiveness can be given to the emotions...the emotions projected to others, the romance. The flame does not usually last long. The excitability is high: a mere hint ignites. But the love of the split second is more important than the deep love of a longer time. There is the element of the tease in Venus in Aries. The sparks of glamour suggest more than there is. When positively aspected, altruism is possible but usually in terms of the Self. Society is welcome to show off the

Self's moment of radiance. Luxuries and bright things adorn the image. The challenge is to expand the emotional aesthetic to a broad field, to seek depth and focus for the quick shining light. The ideal is elusive and the reflection is always more important than the source.

(Queen Victoria, Houdini, Marilyn Monroe, Edward Kennedy)

♀ in ♉ Venus rules Taurus. There is a grand capacity for love. Response is physical, earthy. Emotions need to be faithful. Emotional response colors the whole life. Structure is given to the aesthetic and an art form can express this position of Venus perfectly. Painting and music are very important. Form, structure, and order are essential. The possessions are emphasized to reflect the success gained by the organization of the emotions and aesthetic.

(Albrecht Dürer, Richard Wagner, Charlie Chaplin, Peter Ustinov, Marlon Brando, Liberace)

♀ in ♊ The duality and diversity of Gemini have an effect upon Venus that is the opposite from the effect of Taurus. There is an emphasis upon the mental ideal in emotional, aesthetic, love concerns. The Camelot is better dreamed of than visited. The ability to free the romance physically is difficult because of the mental variables and prerequisites that delay consummation. Many opportunities or multiple possibilities really mean *no* decision at all since "thought about" is better than "accomplished." Without stabilization, the fickleness can get out of hand.

Venus requires form and repose. The multiplicity of Gemini scatters the focus. Talking about feelings is possible without actually experiencing them.

(Brigham Young, Jacqueline Onassis, John F. Kennedy)

♀ in ♋ The emotional need for security in Cancer, ruled by the Moon, conditions the aesthetic and romance of Venus to the point of voluptuousness. There is a warm swirl of emotional response that gains application and structure through aspects within the horoscope. There is an emotional swoon. The home is very important. Additionally, Cancer is a Cardinal Sign: the emotional need for possessions, for building an estate, can drive the native to a marriage with finance. Overall, there is softness and romanticized comfort within a dream. The aspects determine what can be done to reach the goals.

(Dante, Robert Schumann, Nicholas II of Russia, Benito Mussolini, Harry Truman, Mae West)

♀ in ♎ The romance and aesthetic of Venus are linked to the heart. The application is expansive. Kindness. Emotional experience is dramatized. The nature of this Fixed Sign keeps still the self-knowledge of this love potential while waiting for opportunity. A magnetism develops, attracting others to the native. The aspects become important to define the opportunity and the nature of sharing the potential. Conceit and self-indulgence are possible though rare; noble expression of purpose and charitable sharing of the heartfelt are more likely.

(Alexander the Great, Stephen Foster, Mary Baker Eddy)

♀ in ♍ Venus is in its Fall in Virgo. Intellectualism needs to lead the presentation of romance and feeling. The pure and prudish can be the surface show. Acquaintances replace friendships. With strong ambition and abilities shown elsewhere in the horoscope, the absence of emotional involvement allows highly efficient judgment and work. Understanding emotions displaces feeling them. Being strict and proper works against feeling free and warm. Prissiness. Collections of things often take the place of finding these things within the Self. To feel and then share the feeling is the challenge. Evangeline Adams: "People with Venus so situated have the power to express emotion without really feeling it. The position is admirable for a nurse, where the greatest care and tenderness are required, yet where any trace of true pity or emotion would diminish efficiency."

(Goethe, Sophia Loren, Julie Andrews)

♀ in ♎ Venus is the ruler of Libra. The only tension in this position comes from the fact that Venus rules Taurus as well and has an earthy quality which can be "dried" by the Air Sign Libra. The physical consummation of the emotions can become repugnant within the lure of social fulfillment. Following this social lure, the aesthetic is applied to preserving harmony, to restructuring the social mirror for personal values. The aspects are very important here to give Venus application in dignity

and recognition in depth. There is a naïveté possible: giving in to the social peace at the expense of individual emotional expression. Favorably aspected, the fusion can be complete and the full emotional Self can project a Self image of harmony, art, and emotional fulfillment.

(Martin Luther, Oscar Wilde, Pablo Picasso, Ingrid Bergman)

♀ in ♏ In Scorpio, in Detriment, the aesthetic and the romantic emotions become intense. Again, as with Mercury, the spectrum is broad: from the depths of violence and treachery to the zenith of inspiration and regenerated love. Overindulgence can take place at whatever level within the spectrum established for the native through the rest of the horoscope. There is always the possibility of social difficulty. The emotions can be out of control or very much in control, depending upon the aspects. Emotional strength needs extreme projection to fulfill the identity.

(Voltaire, Joseph Stalin, Pope John XXIII, Lee Harvey Oswald, Charles Manson)

♀ in ♐ As with Mercury, the loftiness and speed of Sagittarian thrust give eagerness to the emotions of Venus. The speed of response, though sincere, can cause trouble. High standards are sometimes sacrificed unknowingly in the moment of stimulation. Fickleness and variety are possible, but always justified by a finely articulated ideal. The emotions are active components of the personality expression and publicize the Self. Sagittarius also

brings the influence of the out of doors to the nature: exercise and athletics to improve the aesthetic of the body.

(Charles de Gaulle, Theodore Roosevelt, Charles Atlas, Joe DiMaggio)

♀ in ♄ The emotions feel the restriction of Capricorn's coldness and austerity. Emotional maturation appears to be curiously delayed. With supportive aspects, a precocious emotional wisdom can evolve. Grant Lewi suggested that there is often a struggle between love and duty, desire and ambition. The difficulty with emotions is not from this placement of Venus in Capricorn where the emotions are *not* very alive. Rather, the difficulty comes in the reaction of others to the apparent coldness and from the working out of emotional expression through the rest of the horoscope.

(Benjamin Franklin, Robert Kennedy, Maria Callas)

♀ in ♒ Humanitarianism attracts the emotions. Friendships can become very important. The emotions become a very live antenna. Working through aspects, the emotions gain a unique sensitivity to the unusual and, almost prophetically, to what *can be*. Any indication of intuition within the horoscope receives reinforcement from Venus in Aquarius.

(Mozart, Frederic Chopin, Lord Byron, F.D. Roosevelt, Mao Tse-tung, Sammy Davis, Jr.)

♀ in ♃ Grant Lewi wrote: "Your response to emotional stimuli is a good deal deeper than you are able

to get across to those you love." The feelings and emotional awareness are so strong and deep that articulation of them is difficult unless aspects within the horoscope provide the outlet. In a positive frame, there can be great tenderness and softness. The martyr dimension of Pisces can be evident. The emotions and aesthetic are possessed by the Self and form a very private source of intuition.

(George Washington, Thomas Jefferson, Abraham Lincoln, Thomas Edison, Edgar Allan Poe, Adlai Stevenson, Richard Nixon, Elizabeth Taylor, Barbra Streisand)



*Mars: applied energy, sexuality.*

♂ in ♈ Mars is extremely strong in Aries, the Sign of its rulership. The energy is ardent, blazing. The ego is projected energetically, courageously. This position of Mars needs the disciplines of application and caution, gained through aspects. —Jesus is thought to have had Mars in Aries in conjunction with Neptune, sextile to Jupiter. The ego projection was fulfilled with fantasy and modified by high ethics. —Without such softening, the energy can be belligerent, militaristic. Aggression will show in plan, attack, communication, retaliation, and defense. At its best, Mars in Aries is a mastery of technique.

It is difficult to capture an isolated significance for Mars in each of the Signs. The application of the energy depends greatly upon the whole of the identity and the

product, the result of effort. A Piscean will use Mars energy differently than will a Capricorn, for example. This will become clear through the study of horoscopes.

(Albrecht Dürer, Queen Victoria, Frederic Chopin, Richard Strauss)

♂ in ♈ Within this Fixed Sign, Mars energy is structured into obstinacy. There is patience and perseverance, planning to overcome restraint in one stroke. Security is important and luxuries can be demanded. Security is sought on emotional and financial grounds. This security is the battlefield that supports efforts. Energy is focused within structure.

(Napoleon I, Houdini, Albert Einstein, John F. Kennedy, General Douglas MacArthur)

♂ in ♊ The energy of Mars is lifted to the mental plane. The diversity of Gemini makes follow-through difficult unless support is gained through aspects within the horoscope. The nervous dimension of Gemini adds adventure, travel, and communication as outlets for the energy. The sex quotient gains diverse application or is kept mental. The danger is that energies can go in several directions at the same time.

(Benito Mussolini, F.D. Roosevelt, Shirley Temple Black, Barbra Streisand)

♂ in ♋ Cancer tends to dilute the focused application of Mars energy. In Cancer, Mars is in its Fall. The



energy can be focused within the home; women with this position can rule the roost. There is a kind of introversion of the energy in its focus upon security. There is a defensiveness about the status of security. Little problems become mountainous. Under calm aspects, a grand sympathy can be awakened and sensitively applied to people at large. Fire is cooled to warmth.

(Dante, Michelangelo, Johannes Brahms, Karl Marx, Brigham Young, Pablo Picasso)

♂ in ♌ In this Fixed Sign, the energy becomes self-centered. Leo is also a Fire Sign, and the energy gains royal hue and position. The charm and stature of the king prevent criticism or attack: one gets away with murder! Mars here serves the needs of the rest of the personality with command performances.

(Harry Truman, Helen Keller, Joe Louis, Henry Ford, Sophia Loren)

♂ in ♍ Evangeline Adams observed: "There is a certain passionate chastity about Mars in Virgo." The intellect takes over the heat of martial energy and focuses it within a system or a plan. The details build a structure of power. The challenge is to know when to stop work and trust the edifice. As with Mercury and Venus in Virgo, there is an objective detachment here in the method of energy application. The method rules the intent.

(Napoleon I, Amelia Earhart, Bob Hope, Jacqueline Onassis)

♂ in ♎ Mars in Libra is in its Detriment. The social urges are energized along with the need for lawful balance and aesthetic expression. Energies and emotions can clash; cooperation with others is necessary for profitable self-application. Within some aspects, the eagerness for harmony and balance delays application. Seeing both sides of an argument should not be an end in itself; keen energy can become bland.

(Abraham Lincoln, Winston Churchill, G.B. Shaw, Lawrence Welk, Liberace)

♂ in ♏ Mars is co-ruler of Scorpio. Its energy is applied to an enormous spectrum of emotions. The results can be extremely impressive. Passions can be backed by inspiration; regeneration can be stimulated by deep analysis; emotional security can be preserved through strategic application of energy. With intense aspects, lust, defensiveness, and waste can grip the identity in self-important delusion. Self-discipline unlocks enormous magnetic energy that can prod the world.

(Alexander the Great, Mahatma Gandhi, Joseph Goebbels, Francisco Franco, Mao Tse-tung, Robert Kennedy)

♂ in ♐ Applied energy takes flight in Sagittarius. Long-term application becomes difficult; the short, lofty explosion is more pleasing. Focus breaks up, and multiplicity displaces unity at the core. Athletics and outdoor activities can drain off much of the energy and help calm. Speed can bring accident; hasty negotiations can

bring collisions with the law. The short story satisfies more than the novel. The principle of things is elusive because it is too grand; the momentary displaces the rooted. The lesson: patient control to focus the light.

(Benjamin Franklin, Joe DiMaggio, Mark Twain)

♂ in ♑ Mars is exalted in Capricorn. Applied energy gains discipline in administration, patience, and timing. Control becomes the essence and the strategy that wins. Materialism lures; energy gains possession.

(Thomas Edison, Oliver Cromwell, Albert Einstein, Dwight D. Eisenhower, Marlon Brando)

♂ in ♋ Intellect and humanitarianism offer applications to Mars. The nature of the energy is unique and innovative, requiring good aspects for noble application. This Fixed Sign can bring inclinations to self-centeredness within a concept of individual uniqueness or eccentricity. The application of energy needs to win social recognition; the world for a friend.

(Charles de Gaulle, Edward Kennedy, Adlai Stevenson, Mae West, Lee Harvey Oswald)

♂ in ♓ The receptivity of Pisces mitigates the application of Mars energy. The thrust is inverted. The physical energy is low, and the nerves are preoccupied with internal frustration about full expression of the feelings. The externalization of powers is the difficulty. Though the wish is there, sheer energy has difficulty materializing until some inspiration comes. Incisive

aspects within the horoscope will lead the focus of self-expression.

(Elizabeth Barrett Browning, Errol Flynn, Spencer Tracy, Elizabeth Taylor)



*Jupiter: expansiveness, opportunity, justice, and ethics.*

♃ in ♈ Aries gives ego energy to each of the planets. For Jupiter in Aries, opportunity appeals when the ego is emphasized. Challenge is seen in terms of personal ability and personal success. Depending upon aspects, this view can extend from militant arrogance to lonely timidity and diffidence. The ego seeks to utilize the intelligence of Mercury, the aesthetic and emotions of Venus, and the energy of Mars *within opportunity*. Enthusiasm can be created out of religious or philosophical inspiration and projected with righteousness; solitary self-justification can be passionately framed within private rationalization. Careful analysis of the opportunity and the *preparation for it* bring the highest rewards.

(Mary Baker Eddy, Woodrow Wilson, Francisco Franco, Lee Harvey Oswald)

♃ in ♉ Taurus helps structure the opportunity potential of Jupiter. The native can easily assume success, take it for granted. In a Fixed Sign, Jupiter can keep expansive success out of mind and out of reach: it doesn't

seem necessary. With weak aspects, the motivation may be lax. A sheltered home life may play into the hands of assumed reward and security. In a horoscope with inspirational dimensions, Jupiter in Taurus may structure them aesthetically in art forms. Rewards come in relation to the needs of the native as seen through his ambition (Saturn) and his energy (Mars); usually no more, no less. The structure within life determines reward.

(Nikolai Lenin, Pablo Picasso, F.D. Roosevelt, J.F. Kennedy)

♃ in ♊ Jupiter in its Detriment: diversity, changeability, travel, and the mental faculties are found within the rewards of Jupiter in Gemini. Diversity displaces conventionality; travel brings new influences and new opinions; the mind conceives the reward due and harnesses the energy to achieve it. The spirit of inquiry and adventure is keen and, with good aspects, brings reward; when enough avenues are traveled, luck is found.

Of course, the diversity and changeability dimensions are debilitating and bewildering unless the horoscope has enough energy and perception to take advantage of such opportunities.

(Thomas Edison, Theodore Roosevelt, Jacqueline Onassis, Ella Fitzgerald, Barbra Streisand)

♃ in ♋ Jupiter is exalted in Cancer. The emotions and sensitivity are expansive. Opportunity is sought for ways to improve home security and home comfort.

There is a nobility of view that justifies the personal hope for reward.

(Benito Mussolini, Harry Truman, Andrew Carnegie, Billy Graham)

♃ in ♈ Theatricality, drama, the center of the stage, publicity within opportunity are what appeal to and attract the native's enthusiasms. Appreciation is needed greatly—even more than financial recognition. There is heartfelt sincerity, generosity. Vitality and exuberance mark efforts.

(Edward Kennedy, Elizabeth Taylor, Liberace)

♃ in ♎ Details and painstaking attention line the path to opportunity. Dotting i's and crossing t's are enthusiastically respected because they pay off! Care and caution gain the support of others, in service or financial backing.

(Giuseppe Verdi, Stephen Foster, Albrecht Dürer, Marconi, Houdini, Peter Ustinov)

♃ in ♎ The social expansiveness of Libra can present opportunities from many directions. The challenge comes to the native to decide from among them just what the goal is and what the means are to achieve it. Often, the energies are misapplied. The social push to appear successful can intrude upon strategic reasoning. The enthusiasms are diluted if self-discipline does not create efficient focus. Common sense or religious sense, filled with ideas of justice and strengthened by aspects,

can serve others spontaneously instead of being hoodwinked by their demands.

(Martin Luther, Joan of Arc, Winston Churchill)

♃ in ♏ The spiritual dimension of Jupiter rises powerfully within Scorpio. With less spiritual aspects, the position corresponds to a deep, possibly fanatical belief in the Self. Opportunity is related to the deepest personal needs; enormous, privately secretive drive. All resources can be commandeered to fulfill opportunity in a style suggested by the rest of the horoscope.

(Napoleon I, Al Capone)

♃ in ♐ Jupiter rules Sagittarius. Ideals must parallel opportunity. Enthusiasm can reach lofty dimensions when the personal ideals are involved with the goal. Knowledge, philosophy, understanding are prized attributes. If this Jupiter position is related by aspect to a financial goal, the rewards can be enormous. Without a touchstone for self-application, the exuberant drive can lose focus; the imagination can wander far above the scene. The out of doors and foreign adventure are important stimuli.

(Vincent van Gogh, Eva Braun, Marlon Brando, Prince Charles, Adlai Stevenson, Doris Duke)

♃ in ♑ Jupiter is in its Fall in Capricorn: the enthusiasms are confined by a keen edge of administration. Opportunities are commanded and must show the Self's authority and importance. Distractions from this

path are rare. If the emotions are involved and the aspects harsh, the enthusiasms are diverted into debauch.

(Adolf Hitler, Karl Marx, Hirohito, Jawaharlal Nehru, Charlie Chaplin, Robert Kennedy)

♃ in ♒ Broad social and humanistic dimensions are brought to opportunity and the hope for reward. Friendships help to fulfill the Self. With certain aspects, the expansiveness of Jupiter can get out of hand in Aquarius, and the scope of interest goes beyond abilities. Then, the enthusiasms wander in an impractical idealism. Grant Lewi suggested that Jupiter in Aquarius can be "seeing life through the wrong end of the opera glasses."

(Immanuel Kant, Queen Victoria, Charles de Gaulle, Dwight D. Eisenhower, Thomas Dewey)

♃ in ♉ Within the receptive Water Sign of Pisces, the opportunities hoped for must suit a private, unassuming, personal feeling or dream. Kindness, quiet, and inspiration can reap rewards under supportive aspects.

(Abraham Lincoln, Will Rogers, Sigmund Freud, Bob Hope)

♄

*Saturn: ambition, crystallization, strategic delay.*

♄ in ♈ Saturn is in its Fall in Aries. The



ambition usually adopts a self-defensive mode of expression. It is almost as if the promise of intrepid ego thrust and fire is too much for the careful, cold, crystallized, extremely focused concept of personal ambition. Fire can consume time or time can harness the fire for its own work. The struggle is conducted openly, and the native feels defensive about the process. Saturn reserve fights with Aries show. When the fight is resolved and a sure attack is focused, the ambition is fulfilled.

(Mary Baker Eddy, Joseph Stalin, General Douglas MacArthur)

♁ in ♉ In Taurus, there is a conservative building of ambition's plans. The structure is all. Economy is strategic. The building is shown only after it is complete. Enormous patience.

(Alexander the Great, Benjamin Franklin, Ulysses S. Grant, F.D. Roosevelt, Pablo Picasso)

♁ in ♊ Ambition gains keen perception and is capable of adapting to changes of route. There is a shrewdness, a strategic application of persuasion, a profound, lean way with words. There may be the weakness to want to try anything once. The intellectuality can be somber, profound, or extremely direct. In the case of Oscar Wilde, a square with Neptune gave a camouflage to this austere directness that made his piercing wit famous.

(Oscar Wilde, Benito Mussolini, Harry Truman, G.B. Shaw, Stephen Foster)

♄ in ♋ In Cancer, Saturn is in its Detriment. There is a deep need for encouragement of ambition, perhaps *not* received in early home life. Laziness can develop. Self-esteem suffers. Sorrows in the home or through women must be overcome before ambition is fully realized.

(Napoleon I, Woodrow Wilson, Joe DiMaggio, John F. Kennedy)

♄ in ♌ Ambition needs acclaim and uses dramatic techniques. The means can be more important than the end. Grant Lewi wrote: "It is possible with this position to be too smart for your own good."

(William Jennings Bryan, Theodore Roosevelt, Charlie Chaplin, Adolf Hitler)

♄ in ♍ Hard-working ambition can easily bog down with details. The mind becomes orderly, critical, and serious in its application to work. One carries a burden gladly to prove a point and all its nuances.

(Charles de Gaulle, Dwight D. Eisenhower, Peter Ustinov, Liberace)

♄ in ♎ Saturn is exalted in Libra. Ambition is well balanced or modified by social awareness. The philosophical and religious temperament can be developed in Libra. Selfishness is alleviated somewhat and sympathies are added to the identity's expression. Extroversion is graced with tact; introversion is dignified through sacrifice.

(Francisco Franco, Henry Ford, Mao Tse-tung, Maria Callas)

**♃ in ♏** In Scorpio, we see the deepest working of self-organization. The ambition carries complex defenses with it. Secretiveness. Sex is involved as a primal force of self-regeneration and renewal. The ego can seek affirmation through sex during a troubled time. Giving of the Self is difficult because the Self is so tightly structured. The challenge is not to take the Self so seriously and to be less complicated in the expectations of Self and others. Externalize efforts and trust in their value.

(Martin Luther, Goethe, Arturo Toscanini, Rudolph Valentino, Robert Kennedy, Marlon Brando)

**♃ in ♐** High-minded ambition with direct and ethical manifestation. The slowness and coldness of Saturn are changed within Sagittarius: a lift is given, a pride of principles is seen. Administration gains inspiration. Mastering the philosophy of life gives ambition easy fulfillment. International travel, world and ethical concepts expand the scope of ambition's potential.

(Abraham Lincoln, Nikolai Lenin, Jacqueline Onassis)

**♃ in ♑** Saturn is the ruler of Capricorn. Ambition is strongly structured. Strategies are careful and direct. There can be an element of roughness or crudeness here unless aspects soften the power. With debilitating aspects, a selfish arrogance is possible, so consuming is

the focus upon ambition and its administration. Materialism and recognition are the reigning motives.

(Richard Wagner, John Dillinger, Marie Antoinette)

♄ in ♒ Saturn is co-ruler of Aquarius. The ambition gains a social projection for unique service, opportunity, and endorsement. This is an ideal position for Saturn in this world era. The austerity of the planet is lightened by this Air Sign, structured by the Sign's fixity, and projected to humanity in service and innovation.

(Houdini, Winston Churchill, Bob Hope)

♄ in ♋ There is an inner battle to distill ambition's true character and direction. Saturn's austerity is softened. Inspiration collected to condition ambition often opens doubt to the direction of this ambition, its motives and rewards. More than one profession is indicated often, especially when Pisces is upon the Mid-Heaven. There are indications of sorrow, within early life especially, that turn the mind to self-questioning about self-application. Meanings questioned are the best support for ambitions expressed. Moodiness and subjective interpretations, when lightened by energetic aspects, can bring deep self-awareness to the fulfillment of ambitions.

(Queen Victoria, Karl Marx, Thomas Edison)

The trans-Saturnian planets move so slowly that many people of the same generation will share the Sign positions of Uranus, Neptune, and Pluto: Uranus orbits the Sun once in 84 years and spends 7 years in each Sign;

Neptune's orbit is 165 years with approximately 14 years spent in each Sign; and Pluto, 248 years, approximately 21 years in each Sign. There is a subtle relationship between these outer planets and Saturn (28 to 30 years) and the Moon (28 to 30 days): Saturn goes through one-quarter of the Zodiac during Uranus' stay in one Sign, one-half of the Zodiac during Neptune's transit of one Sign, and approximately three-quarters during Pluto's transit of one Sign. The Moon comes into consideration in prediction techniques, especially in relation to Saturn. *The influence upon the collectivity gains expression through the individual ambition.* Just how the generation or the subgroup feels about and reacts to issues influences the expression of personal goals and effort. Society makes its mark.

For example: Saturn and Pluto are together (in conjunction) every 32 to 34 years. The last conjunction took place in Leo between the fall of 1946 and the end of 1948. Individual horoscopes from this period show the need to defend the Self against the press of time and life: time (Saturn) and masses (Pluto) coalesce in cold ambition in the Sign of authority, personal honor, glory, and life itself (Leo). The identities demand attention, recognition, accolade. People born at that time are now presented with a broad spectrum from which to choose a cause, a goal, a means, a stage for this attention need: internationalism offers politics (and revolution), incredible travel possibilities offer every man a choice of place in the world (and a hijacking opportunity), racial issues inspire humanitarianism (or sedition). Perhaps this conjunction throughout history *is* the much-touted generation gap!

The conjunction occurred previously in 1914 to 1915 in late Gemini, early Cancer.

Saturn and Neptune are in conjunction every 36 years. There is the possibility of ambition gaining inspirational, psychic dimensions...or corrosive rebellion. Nativities from 1917 and 1953 will present this conjunction.

Saturn and Uranus are in conjunction every 46 years: convention and modernity clash for better or worse, for personal magnetism or confusion. The most recent conjunction occurred in 1942 to 1943.

Uranus and Neptune are in conjunction approximately every 171 to 174 years. The next conjunction will occur between 1989 and 1994, and in the earlier period of this span with Saturn as well, in Capricorn.



*Uranus: invention, modernity, suddenness, innovation.*

♃ in ☊ (1865 to 1872) The world was expanding rapidly. Material discovery and utilization were the characteristics of the time: pioneering and reconstruction, aiding expansion with the application of scientific discovery. The spirit of adventure brought man into service of the world. Innovation attracts.

♃ in ♋ (1872 to 1878; 1956 to 1962) Innovation, with success and security in Cancer, became theatrical

and dramatic in Leo. Integrated through certain aspects within the individual horoscope, the spirit is heightened by individualism of a high degree. Great men emerge and consolidate the expanding world.

♁ in ♍ (1878 to 1885; 1962 to 1968) Originality was dedicated to organization and control of accumulated invention and innovation. Social welfare became a cause célèbre. Creativity was used for social improvement or social criticism; social organization was exploited to consolidate individuals and their work into society.

♁ in ♎ (1885 to 1891; 1969 to 1974) Grant Lewi captured this significance perfectly: "You can be a great leader (if your expression of originality works outward to the rest of the world) or a dreadful eccentric (if it works inward). If you identify yourself *with* others on the positive and aggressive side, you make definite contributions to your group or to society as a whole.... If *against* others... you may think the hand of the world is against you and become a lone wolf."

♁ in ♏ (1891 to 1897; 1975 to 1981) Personal genius works through deep wells of inspiration. The broad spectrum of Scorpio is offered. With certain aspects, heights of inspiration can be achieved. The fixity of the Sign can bring a rigidity within a "method" or a reliance upon sex, a loss of individuality while thinking that the system increases that individuality.

**H** in  $\text{♈}$  (1897 to 1904; 1982 to 1988) Innovation is publicized, linked with ethical vision and world opinion. In maturity, those born in this earlier period were between wars. Work was freed into a time of carefree spirit, the exuberance of prosperity. Innovation gained publication through new communications media, and international exposure became the avenue of individual fulfillment.

**H** in  $\text{♏}$  (1904 to 1912) Innovation gains administration and bureaucratic structure. The early years of these natives were shaken by the war. In maturity, they worked to gain a security that would settle the world into a new society. Individual genius worked through plan, organization, and inspiration (from an opposition of Neptune at that period). Security is vitally important.

As Cardinal Sign of the Earth Family, Capricorn is a Sign very important to the affairs of Earth. Astrologers are anticipating the triple conjunction of Uranus, Neptune, and Saturn in early Capricorn in 1989. —The past presents a powerful record. When the two largest planets in the system, Jupiter and Saturn, came into conjunction with each other within *Earth Signs* six consecutive times between 1861 and 1961, every United States president in office at the time died in office: Abraham Lincoln (shot), conjunction 1861; James Garfield (shot), conjunction 1881; William McKinley (shot), 1901; Warren G. Harding (ptomaine poisoning, pneumonia, death), 1921; Franklin Delano Roosevelt (cerebral hemorrhage, death), 1941; John F. Kennedy (shot), 1961.



♁ in ♊ (1912 to 1919) The “new spirit,” the humanitarian thrust of innovation. Individualism is applied to or absorbed in the welfare of the group. The brotherhood of man.

♁ in ♋ (1919 to 1927) New social order and inspiration accumulated through life during World War II brought the focus back to improvement of the individual. An inward self-construction frees the adventure of self-discovery and self-development.

♁ in ♈ (1927 to 1935) Aries expresses the full application of individual genius and innovation. Vigorous self-esteem paves the way for the Will. Action and recognition are vanguards of individualism.

♁ in ♉ (1935 to 1942) Innovativeness is brought to regard for possessions and individual worth. Quite different ideas about money, peace, personal aesthetics, and perhaps sex, come to the foreground as stage for individual identity.

♁ in ♊ (1942 to 1949) This position coincides with the Gemini Ascendant and Uranus of the United States of America: diversity, invention, multiplicity of concerns, bright intelligence, opinions...all provide avenues for individuation.

♁ in ♋ (1865 to 1872, page 76; 1949 through 1955) Again world expansion and reconstruction issues

involve this subgeneration with outer space, ending war, securing emotions within the homeland. Altruism and equality are revived to keep peace. The home is extended to the world of man. Humanitarianism extends emotions away from the Self to the collectivity.



*Neptune: fantasy, camouflage, the spiritual.*

♆ in ♍ (1902 to 1916) The impression of the home life and emotional security are very important. The mother figure is often a source of psychic influence. The home is a strength or liability for the other configurations in the horoscope.

♆ in ♏ (1915 to 1929) High creativity for self-dramatization. Self-delusion is possible through appeals made to heartfelt emotions.

♆ in ♏ (1929 through 1942) Birth during the Great Depression provided a deep impression of the need-to-work for self-improvement, absorbed through the family during the early years. Saturn opposed Neptune during 1935 to 1937 within this period of Neptune in Virgo: the ambitions were pulled into several directions at the same time. An inner battle must work out the true way for the ambition. Details and idealism delay resolution; ambition seems to be asleep when it is seeking focus from

somewhere within the early family years for application to the years of individuation ahead.

♃ in ♎ (1943 to 1957) Idealistic social outlooks inspire this subgeneration. A sense of social responsibility overcomes the need for individuation. Uranus in Cancer squared Neptune in Libra from mid-1952 to mid-1956: this is the aspect of the "younger generation," unusual revolt against structures established by institutions in the name of group security. Pioneers rise and work with a keen awareness of private inspiration.

## ♇

*Pluto: the masses, the collectivity, perspective of values, rebirth.*

Neptune and Pluto are indications of background within the individual horoscope. They define the inclinations of subgenerations that live and evolve with each other within the same period of time. Pluto in Gemini (1884 to 1914) saw change through adventure and diversity; Pluto in Cancer (1914 to 1938), change accomplished through the Self within units of family, home, institutions of security; Pluto in Leo (1939 to 1957), change through individual assertion of individual worth; Pluto in Virgo (1957 to 1971), change through perfecting systems and society's ways; and Pluto in Libra (1971 to 1984), change of the social system.

Pluto's orbit is very erratic. It remains longer in some Signs than in others. This will be studied in Volume IV.

As with the Signs, the planets, and the Houses, the scope of meanings is as grand as the times will allow, as an individual will express, and an astrologer can apply. With familiarity, you will feel much about a planet within a Sign, and a few key words remembered will trigger this feeling immediately each time you see a planet in a Sign in a House in a horoscope.

The examples of famous individuals given in each of the preceding descriptions show the development of the particular planet-Sign blend particularly well. The relevance is often immediately clear; sometimes it requires deeper thought. The relevance of Mercury and Venus is particularly difficult to illustrate since the manifestation of these planets is usually seen in the private sphere only.

Jupiter is also difficult to illustrate; it easily represents a hidden quality. Jupiter connotes enthusiasm in the active sense and, when times were less liberal, it was this particularly Jupiterian enthusiasm that opened doors to opportunity. In modern times, with so much activity and diversity of self-application, opportunities seem to abound; opportunities are for the asking in so many cases. The enthusiasm connotation seems to be altered to *preparedness*. So often in case work, astrologers see an individual who seeks opportunity but has been lulled by the inflation of society's security. The individual overlooks the work and dedication necessary to be prepared.

Preparation in modern times demands its own opportunity. The tie between Jupiter and Uranus—individuality, invention, uniqueness—is very close in modern times, in modern astrological analysis.

When certain planetary positions imply sharp contradiction—the Moon in Scorpio and Venus in Virgo for example—the analysis must determine the balance and the place and timing of exposure of the qualities. Julie Andrews is a case in point: her screen image in the *Sound of Music* and *Mary Poppins* is certainly Venus in Virgo. Public acclaim for this image has perhaps overbalanced what her personality form probably really desires. Indeed, perhaps the Moon in Scorpio *has made* her Venus in Virgo so effective! —These are the challenges that face an astrologer: they will be the challenge of the next volumes in this series.

A few more examples: Shakespeare is assumed to have had the Moon in Taurus (self-containment). His authorship is disputed vigorously to this day. He may very well have been content to apply his name to another's works and seek no original personal gain from them. Greta Garbo was content with her few years of stardom and lapsed into seclusion (Moon in Taurus). Adlai Stevenson was imperturbable as a middleman but was certainly no innovator (Moon in Taurus). Liberace plays others' works in his own style; *his style* becomes his art and he is happily content that "he" delights. He needs nothing more than to show his Self. —All have the Moon in Taurus.

Pablo Picasso had Mars in Cancer. His passion and

energies for his homeland Spain were aroused to the extent that he chose lifelong exile in vigorous dispute. He created a masterpiece, *Guernica*, to speak his depths of despair over the bombing and killing of the revolution. Picasso had the Sun in Scorpio.

The music and lyrics of Stephen Foster are Cancerian to the utmost: "Old Folks at Home," etc. Foster had the Sun, Moon, and Mercury in Cancer.

Houdini was not only a master magician and natural publicist of his vigorous ego but a psychic investigator as well: Sun, Venus, and Neptune in Aries, Moon in Sagittarius, Mercury in Pisces, Uranus in Leo.

The blends of planets and Signs are the building blocks of analysis. They are sealed together by the aspects.

## **Part Two**

# **Operational Astrology**





## Introduction

Astrologers have yet to discover the actual link with life, the *what* of a planet. Deduction and endless observation only suggest an essence, a significance, a "meaning." Astrology and astrologer are criticized and questioned about Astrology's status as a science, experimentally predictable and absolute. Some astrologers have gone to great lengths to prove that it *is*, developing theories of electromagnetic fields, radio waves, light waves, gravity, spiritual bonds, etc. —In this astrologer's opinion, to prove Astrology one way or another is unnecessary. The *what* is operationally obvious.

Religion is not a science, yet people live and die for their faith. Psychoanalytic theory is not a science, yet it is applied by scientists to the minds and spirits of men. —Astrology deals with the same mysteries of life and reasons for being and, so eloquently through Newton, certainly shows the existence of a god of order, if nothing else. The formal body of knowledge is vast and rewarding.

The *what* is lost within the operational harmony we easily see in the natural order. Astrology measures it

functionally without articulating it substantively, and through these measurements the Order lives. Humans within the Order gain a measure of being and direction of purpose that complement what religion they have.

Astrology was a founding base of religions. Astrologers among men have deep faith and disciplined respect for mystery and miracle.

## 18

# Planets in Aspects

Circles have no starting points. The planets in orbit have a centripetal dependency upon the Sun. Man views them in application to his own planet Earth. In measuring the relationship, the aspect, between two planets, we begin measurement from the planets' conjunction with one another. Theoretically, the conjunction becomes our starting point for the development of aspects.

The development of aspects between the Moon and Sun (pages 11-16) is dramatically vivid. The translation of light does have correspondence with life on Earth in ways that have been assimilated in language, legend, calendar, art, natural science, medicine, law, religion, and many less-understood aspects of human behavior and knowledge: in some countries the penalties for crimes committed during the Full Moon are modified because of the "influence"; the phases of the Moon affect hemorrhaging during surgical operations; knowledge of the tides is extremely important to life and work with the waters; the romance and aesthetic of man are filled with references to the Moon; modern technology has reached the

Moon so that man can take his stand upon it. We seek to understand our Earth origin from studying the Moon. Is the relationship that is so observable between Earth and Moon an awareness-tension of separation...or an awareness-tension of rejoining? Is this why man projects a love and romance to the Moon? —We stand upon the Moon. Man turns himself inward intellectually in his quest for identity and outward experientially to what might once have been part of him by going to the relator, the related, the symbol of the form, the style of his identity.

We are not so visually, aesthetically, and scientifically aware of the movements of other planets in relation to the Sun. There is no obvious change in light. We cannot apply our translation of light observations to the relationships between planets, which have no light of their own. But the theory of relationship, beginning with the focus of qualities at conjunction, remains the same. Man within the circle measures his position within these ever-changing relationships. *He articulates the circle of his system-existence by defining the space with lines and angles.* Plato observed: "God ever geometrizes." —To understand, so does man.

A conjunction in astrological terms refers to a focus in a line of sight. The positions of two planets are translated into terms of longitude: their positions are measured along the ecliptic (the Sun's apparent path around the Earth) in terms of Signs and degrees. When two planets are within a single line-of-sight measurement, they are said to be in conjunction although there may be vast distances between them. The longitude measurement

becomes a point of convergence of man's awareness of the planets' significances. *The conjunction is a focus of meanings.*

At no time are the Heavens static, unmoving. The horoscope captures a fleeting moment only—becomes a photograph of the positions in a moment of time from a particular location. A moment later, the positions will be different, and we will need a new photograph. The planets constantly change their positions of relationship to one another because each planet moves at a different orbital speed.

In Astrology, at the moment of conjunction, the blend of any two (or three, or four) planets is theoretically total. At any moment after conjunction the blend will change somewhat. As the faster-moving planet gains longitude (advances) over the slower-moving planet, the relationship in meaning changes and aspects (angles) develop between them. The aspects are measured in terms of longitude along the horoscope circle.

The first major aspect is the sextile ( $60^\circ$ ): one planet is  $60^\circ$  away from (ahead or behind) another planet in longitude. The  $60^\circ$  are equal to two whole Signs, very easy to see at a glance. The planets in separation gain distribution characteristics of their own but still retain a blend relationship. This relative independence of  $60^\circ$  is harmonious. *The sextile recognizes the individual meanings of the planets in a relationship of mutual support.* The sextile contributes support of the two planets to other structures in the horoscope. The sextile is a modifier.

When the planets are farther apart at  $90^\circ$  from one

another, they are in square relationship, square aspect. *The square is an assertion of independence, a position of breakaway and development.* Two values of significance are at right angles to each other. The ancients regarded this square aspect as negative. Society then offered man few opportunities to express, to relieve the developmental tensions of choice and change. In modern times, the square is a catalyst. "Receiving" the square, man himself blends the influences with his Will and creates change and reorganization to absorb the tension.

When the planets are farther apart at  $120^\circ$  from one another, they are in trine relationship, trine aspect. Through the trine an optimum ease is created between the two planets. The development and synthesis demanded by the square *can be assumed to have taken place* (before the birth, perhaps in a previous life!), and the satisfactory resolution is seen through the trine. *The trine and sextile are both aspects of ease and support.* —Remember that three trine aspects within the circle form an equilateral, harmonious triangle. The sextile is related to the trine since, geometrically, a smaller equilateral triangle is formed connecting two points  $60^\circ$  apart on the circle's circumference with man at the center (page 42).

In opposition ( $180^\circ$ ), the two planets are in an aspect of awareness. They are in the "light" of each other. The ancients ascribed disruptive tension to the opposition, as if significances were pulling in or pressing from two directions at the same time. In modern times, we can add that the challenge to identity demands a focal awareness of powerful potentials. An opposition, an awareness, in

superb balance, suggests a functional recognition of purpose and meaning related to the two planets that is vitally effective in modern times. Two 20,000-ton piston hammers pounding each other head-on with the same force would cause no damage. If the force of one were altered in the slightest, destruction would occur. The opposition calls for balanced, efficient deployment. —Through the aspects, man strives for natural equilibrium, balanced force, *resolution* within his society. The aspects all work together for maximal development of the identity.

Astrology uses very simple symbols for the major aspects:

| Aspect      | Symbol | Mode of Expression  |
|-------------|--------|---------------------|
| conjunction | ♌      | focus               |
| sextile     | ✳      | support             |
| square      | □      | development-tension |
| trine       | △      | ease                |
| opposition  | ♌♏     | awareness-tension   |

Aspects represent the *wedding of energies*. We will see that a horoscope without oppositions or squares is a horoscope without developmental focus (Volume IV). There may be a conjunction, a core focus of energies, but for these energies to express themselves throughout the horoscope developmental aspects are needed. We will see that a horoscope seems to require a balance of developmental tension and developmental

ease in order to unify best. Through the aspects, we see the challenges and abilities embodied in each man to stimulate growth. In their cooperation, all aspects have a developmental tension, an inclination to fulfillment. The measurement of aspects delineates individual identity dramatically and provides the base of developmental prediction.

In horoscope analysis, when we see two planets in aspect, we must be able to register immediately the "feel" of each planet in terms of its position within a particular Sign. Then, we note the mode of expression of the particular aspect and blend this synthesis with the experiences indicated by the planets' House positions. The modifying aspects are analyzed similarly, and the whole is complete. —In later study, *the element of time* is superimposed: the time of highest focus of the synthesis and the calendar of progress toward this time of highest focus in the future.

The process of synthesis becomes very swift with experience and confidence in technique. The challenge becomes relating the wedding of energies to detailed experiences. Knowledge of many fields and behavioral psychologies makes the complete astrologer: Astrology becomes a life study of the living process.

So many, many combinations are possible. The objective for the student is again to "get the feel" of the major aspects between planets. To memorize all the possibilities is completely out of the question. To become familiar with the combinations of energy expression through the study of one's own horoscope and to expand this research



through every horoscope one studies is the proven path toward astrological skill.

In *Heaven Knows What*,<sup>1</sup> Grant Lewi brilliantly expanded the meaning of major aspects between planets. No student should be without this book. It is the finest guide to further study of aspects extant.

In this volume, we will cover the aspects only in abbreviation. Certain key words or an idea-image provides a beginning for the student's study. In the horoscope analyses throughout this series, the aspects will be amplified in significance and interrelation as they are expanded within specific life-experiences.

### Sun and Moon in Aspect

For the two lights, it is particularly important to gain a grounding that recognizes the Sign positions as well as the aspect. This is one of the first considerations in horoscope analysis: immediately, one notes the Sign of the Sun, the Sign of the Moon, their Houses, and the Sign blend with the Ascendant. *The entire horoscope unfolds upon this base.* The aspects between the Sun and Moon are contained in the relationships between their *Signs*.

### *Sun in Aries*

☉ in ♈ - ☾ in ♈ Here is a conjunction, a focus of life-energy and personality form in the Cardinal Fire Sign, Aries. What we have studied about Aries will be in

1. Grant Lewi, *Heaven Knows What*, fourth edition revised (St. Paul: Llewellyn Publications, 1971).

dramatic focus. The planet Mars will be very important within the horoscope since it rules Aries. —Independence, self-confidence, self-awareness. Extreme individualism. Ready expression, impulse. Egocentrism.

☉ in ♈ - ☾ in ♋ The Moon's position within the Fixed Sign of the Earth Family (its Sign of Exaltation) brings a dimension of stability to the life-energy thrust, a certain assumption of worth that becomes a curious charm. One does what one pleases and gets away with it!

☉ in ♈ - ☾ in ♊ The Moon's position in the Mutable Sign of the Air Family channels the Aries Sun energy through the diversity and communication emphasis of Gemini. Aries to Gemini is a sextile relationship (the second Sign away from Aries: 60°): the energy gains a support in expression, an easy outlet. Communication of energy is effluent, excessive. The relationship seeks to complement a "harder" aspect, a square or an opposition, to gain anchor. Heated communication flows too easily.

☉ in ♈ - ☾ in ♋ The Moon in Cancer (the Sign it rules) squares the Sun in Aries. If this aspect is nearly exact in a horoscope (any square between the Sun and Moon), we can expect a disruption within the parents' home situation at the time of the birth. Aries thrust and Cancer sensitivity and capability are wedded. The synthesis seeks application. Through other aspects made with the planets, if one dimension becomes overemphasized the other will suffer. Moodiness can replace sensitivity

when the Will is balked. Tyranny can replace drive when the security is threatened. In proper balance, the experiential outlet must match the grand developmental power potential.

☉ in ♈ - ☽ in ♏ The relationship between these two Fire Signs is a trine. The Fire energy flows with ease, flares at its best. This is a blend of adventure and romance. Expressivity gains dramatic eloquence. The Self is well pleased. Success is needed and expected for gratification of the inner self-image.

☉ in ♈ - ☽ in ♈ The critical, analytical mental dimension takes over the expression of the Aries energy. The thrust is to learn more always, to build stature through detail and analysis. Judgment is stern. The Self almost apologizes for its power.

☉ in ♈ - ☽ in ♎ Every opposition is curiously difficult in analysis. Between Cardinal Signs, there is a separative dynamism, two forces working complicatedly in separate directions, yet dependent upon one another. Between Fixed Signs, two constructed concepts have difficulty yielding to blend. Between Mutable Signs, two fields of reaction wait apart for a catalyst, a blending tie. With the Sun in Aries, there is extreme personal ambition, stress for and upon the individual self-image. (Saturn—ambition—will be very important.) With the Moon in Libra, there is a dependence upon others to mirror the Self. Concentration is difficult. Daydreaming. Romance

complicates matters. Facts and reality will wed the forces, bringing the life-energy to application and the social focus to its proper complementary balance.

☉ in ♏ - ☾ in ♏ The Moon in Scorpio is in its Fall. The conviction of self-worth gains deep structure in the works of others: others are made to believe the self-image. Life is never dull! Brooding and secretiveness can accompany the planning of ambition's thrust. Stolidity of purpose and poise does not invite sympathy. A secret ideology is constructed to shield the Self against any odds. Recognition is profoundly important.

☉ in ♏ - ☾ in ♏ Again, two Fire Signs: a trine. Independence gains an easy development through thought, action, speech, ideas, principles. Truth rules. Details slow down the process of speculation. The position is almost too easy: speculation can lead to false deduction based upon facile inspiration. The benefits of careful mental training can release wonders. The power of the Aries energy is directed to control the ideas and the minds of others. A terrific force of expression, social appeal.

☉ in ♏ - ☾ in ♏ The Moon in Capricorn is in its Detriment. The two Cardinal Signs form a square. Heated ambition and cold administration have a developmental tension that almost inevitably creates success. The radiant rock. Forceful expression is anchored and itemized. Again, there may have been upheaval in the parents'

situation at the moment of birth. One of the parents (probably the father) can be especially important in development. Demonstrativeness becomes practical common sense in expression. Opportunism.

☉ in ♈ - ☽ in ♒ Another sextile; Aquarius is two Signs away from Aries. Interest in people pays dividends: on-the-move, working with people to promote the Self. Adventures among others bring out the best. Individualism takes on unique forms. The "right" people aid the Self.

☉ in ♈ - ☽ in ♉ The Moon approaches New Moon, new focus. In Pisces, with the Sun in Aries, the energies are diluted: moodiness, temperament, an external show of force but an inner timidity. Expression is easy but communication is difficult. Solitude is important to prepare for presentation. Introspection and self-pity can be reactions when energy is focused but somehow is not communicated or understood as intended. The thrust becomes highly personal and privately important. Understanding is grand, externalization is difficult.

### *Sun in Taurus*

☉ in ♉ - ☽ in ♈ A powerful personality: the life-energy has a fixity of purpose and a solid structure, and the personality's form has thrust and flair. The personality commands what is needed...possibly ruthlessly. Inconsistencies belie the deep fixity of motivation. The

expression has high believability and tenacity. The challenge is to respect the same things in others. Beware your desire for assuredly you will have it.

☉ in ♀ - ☾ in ♀ A conjunction; Moon in Exaltation; self-focus: stubbornness can change into determination and reasonableness. Respect for authority is based upon the determination *to become* the authority. Patience prepares the way for the Will. The assumption of responsibility is energized by keen insights, and a personal tower is constructed.

☉ in ♀ - ☾ in ♀ The solid structure is expressed in voluble, critical ways and can become muddled by personal discontent. Diversity threatens to break up the structure. Curiosity and learning should replace finical speculation. The tangible and concrete rescue the flighty and indecisive tendencies.

☉ in ♀ - ☾ in ♀ A sextile. The Moon rules Cancer. The emotions flow almost too easily in seeking security and reception for the personal ambition. Vanity becomes a sensitive point. Self-assurance may be only skin-deep. The emotions are ready to support the core structure but need goals in order to express themselves constructively. Excessive diplomacy can register as weakness. With relationship to an opposition, for example, these characteristics smooth the way for expression, giving emotional conviction to the awareness of the needs of the Self.

☉ in ♄ - ☾ in ♎ Two Fixed Signs: a strong Will dramatically displayed. Dominance is the mode. Respect is expected. Instincts are trusted. Dynamic organization is brought to bear upon ideas, relationships, plans. Dramatic temperament.

☉ in ♄ - ☾ in ♋ Two Earth Signs, a trine: the ease of expression gives poise, common sense, and an easygoing independence. Study, exactness, and the compilation of details all work to build the structure. The ease of the energy flow can too easily dilute development. A relationship with a square or an opposition is needed to link this combination to active development.

☉ in ♄ - ☾ in ♉ The stolidity of Taurus finds a tension with the personality show in social directions. Both Signs are ruled by Venus: romantic dimensions are stressed. Self-dependence is too easily forgotten, and constructive energies can be wasted in socially and emotionally pleasing directions.

☉ in ♄ - ☾ in ♋ An opposition in Fixed Signs (the Moon in its Fall): passionate stubbornness. Headstrong, self-willed. Possessions are held secure and locked away while new worlds are sought. There is a deep, intense drama given to the quest. The show too easily becomes static. Security works against itself unless the security is supported and eased by complementary aspects. The tension can become inert. Effort in one direction or the other is difficult. Developmental action

is easily wiped out by camouflaging (hiding) the tension.

☉ in ♈ - ☽ in ♉ The fixed core is given a social and expressive lift. A keen moral sense blends with a social receptivity and good outlets are offered for the private plan. Personal interest is paramount, and others' works, if they apply to the Self, are eagerly absorbed. Criticism of others on a very high plane occurs when the Self's specific interests are not involved. An articulated moral and ethical structure provides the "right" social label to the ambition.

☉ in ♈ - ☽ in ♊ Two Earth Signs, a trine, Moon in Detriment: there is a yearning for influence. Idealism and realism work hand in hand to create a materialistic structure. Fairness and honor make the ambition flow easily in interaction with others. To control one's own security is the life goal. —Here the powerful energies of the Moon in Capricorn are channeled less disruptively and more nobly because of the trine relationship with the Sun.

☉ in ♈ - ☽ in ♋ Two Fixed Signs, a square: an easy social manner belies the hard core of purpose. Be ye therefore wise as serpents and harmless as doves. Emotions are translated into practicality. Independence and superiority feelings are key dimensions to the personality. The developmental tension is to express the core purpose through innovative work with others. The tension is between self-awareness and magnanimity.



☉ in ♉ - ☾ in ♋ A sextile: there is a deep awareness of the unconscious that is rarely shown and the possibility to translate this into creativity. Although there is a great need for affection and sympathy, this Sun-Moon position can isolate the Self with its own introspection. The challenge is to link the sensitivity to an external focus, thus complementing the focus with aesthetic and sensitive reactions.

### *Sun in Gemini*

☉ in ♊ - ☾ in ♋ A sextile: diversity and the nervous system gain energetic, forceful expression. Quick as a cat! Wit and both physical and mental mobility make the Self the life of the party. Shrewdness and keenness work for the Self and are alert to any focus of ambition as an outlet for the abundant energy. Self-confidence abounds on the surface.

☉ in ♊ - ☾ in ♉ Grant Lewi wrote: "You are one of the most popular people you know. Your cleverness makes friends and your stability keeps them. Underlying the fluency and facility of Gemini is the solid rock of Taurus." Resistance and discrimination. Enduring romance transcends fickleness.

☉ in ♊ - ☾ in ♊ The nervous system and restlessness of Gemini gain tremendous focus in this conjunction. Possibilities are exhausted quickly; the Self tires the environment, is always ten thoughts ahead of itself. This

conjunction needs anchor desperately. Positively, the power of ingenuity and intellect is tremendous when concentration is learned.

☉ in ♋ - ☾ in ♋ Impressionability through the emotions, senses, and nervous system is at its highest. The Moon rules Cancer. Criticisms are aired easily to help find the secure home for the self-image through a nervous process of elimination. Concentration removes the nerves and opens the sense system to rewarding emotional understanding. Without intellectual training, the emotions and nerves float without anchor on uncharted waters.

☉ in ♋ - ☾ in ♌ The indecision of Gemini is stabilized greatly by the Moon's position in Leo. A sextile: support is given to the whole nervous system and intelligence. Romance finds a home after critical experimentation. A dramatic show of diversity contributes to a leadership image. Nervous temper can break through the surface when the Self feels imposed upon. Application is sought through a tie-in with focused aspects like the opposition and square.

☉ in ♋ - ☾ in ♎ Two Mutable Signs, a square: the critical abilities can get out of hand. Frustration with ideals and expectations. Feelings of being misunderstood or unappreciated. Moodiness and temperament. The grass is always greener on the other side of the fence. Indecision hurts. Focus provided elsewhere in the

horoscope brings astute, critical intellect to fruition. The intellectualized desires are often stronger than the action to realize them. The mind and nerves and standards are in developmental tension.

☉ in ♊ - ☾ in ♎ Two Air Signs, a trine: business and pleasure, cleverness and sociability, ideals and gratifying experiences...all flow well. Optimism is gained through flexibility in response. Things may be too easy and introduce confusing variety. The positive potentials of these positions need relation to firm and focused application.

☉ in ♊ - ☾ in ♍ Intellectual quickness and emotional depth can create a forceful magnetism. The Moon is in its Fall. Sensationalism and overemphasis of the surface pleasures can easily sweep away intellectual applications. The Self controls the mind, and others control the Self's emotional reactions. The flexibility of the Gemini takes on too easily here the ideals and goals of others in his circle. Major troubles come from the opposite sex.

☉ in ♊ - ☾ in ♈ Opposition: information, travel, adventure, imagination...all gain focus in this polarity. Reactions at vastly separate levels await a bond with support-and-development aspects within the horoscope. The nervous, intellectual thrust has trouble realizing the lofty, far-reaching philosophies. Gossip or idle

chitchat can fill in the gap. Talking about goals substitutes for realization of them. A hard person to pin down. The mind works overtime and can run away into several directions at once unless anchored in concentration. Then, tremendous achievement is possible, from the academic to the spiritual.

☉ in ♊ - ☾ in ♋ The Moon is in Detriment. The entertaining, versatile energy of Gemini gains a determined, organized, shrewd externalization. Ambition and persuasion are congenially tied together. Analytical tendencies are more pronounced than creative ones. Fairness and calm are the orders of the day. The strength of this position in its idealized forms is a mental detachment to serve ambition. —With other debilitating aspects, the Moon can take over significance and express shrewdness tyrannically.

☉ in ♊ - ☾ in ♎ Two Air Signs, a trine: the unusual and innovating dimensions of Aquarius give to the mentality a keen insight and foresight. Intuition for things, people, and situations gives facile expression to the intellect. These are the Sun and Moon positions of the humanitarian. Squares and opposition are needed to weld this eased trine into progressive focus. With application, the mind becomes extremely influential, guided by intuition and curiosity.

☉ in ♊ - ☾ in ♉ Two Mutable Signs, a square: intuition develops a tension within the mind and nerves

because externalization is difficult. Ideas about the Self seem to require overexplaining. To preserve integrity—to find it—can stimulate lengthy exposition of things known intuitively to be right. The mental process is always in the midst of developing and formulating something that will be understood and effective. The reactions support an ease of application; a business focus, leadership, an anchor for mental deductions that reward the Self in reality.

*Sun in Cancer*

☉ in ♋ - ☾ in ♋ Two Cardinal Signs, a square: the emotional sensitivity and the instinct to protect security are excellent core strengths for the personality's thrust and flair. The developmental tension here is almost resolved before it begins: the Self holds the center of the stage and can do it with sensitivity enough to win. There is a keen sense of self-worth and ability to promote it without inviting trouble. —Note that the Sun is in the Sign ruled by the Moon, and the Moon is in the Sign of the Sun's Exaltation.

☉ in ♋ - ☽ in ♌ A sextile, Moon in Exaltation: graciousness. The sensitivity of the Sun in Cancer blends with the personality's appreciation for the aesthetic and the secure. The self-purpose is clear, and the action to achieve it is softly expressed. There is a magic about the personal ability, an unruffled show. Originality can abound within sensitive, secure organization.

☉ in ♊ - ☾ in ♋ Sensitivity and nerves blend to give adaptability and flexibility as strengths or weaknesses. The sensitivity may be too keen. The security may be undermined. Expressivity is too volatile, too emotional for constructive development. Support is needed. For women, the position is easier than for men: there is woman's intuition or man's emotional indecision. The challenge is to cultivate focus, drive, formulated objectives, and integration of purpose.

☉ in ♊ - ☾ in ♊ Conjunction. Sensitivity and self-protection gain tremendous emphasis. The home is the castle. The emotions become a shelter against the intrusion of the world. High affections and great values are sought within the home security. Cautious and sensitive approaches are learned through emotionally trying experiences. The struggle is always indirect, diplomatic. Loneliness is easily accepted to avoid hurt by the world.

☉ in ♊ - ☾ in ♌ Leo offers an emotional social poise to others. Understanding is gained more easily. The Self has a more secure position externally than when the Moon is also in Cancer. There is a sense of rightness emotionally that reigns strategically to bring out the best in others. The impression of pride is given and others believe it.

☉ in ♊ - ☾ in ♎ A sextile: a timidity in early life since the emotions are tied to the mental keenness and

intellect, focused only through experience. Maturity establishes the Self's own ideals and demands, and the personality becomes a strong force. The deep unsureness is covered by exactness and ideals established for relationship. Conventionality is the rule. Work is a necessity to overcome the feelings of vulnerability. The excellent commandeering of forces needs goals: a tie-in to focused aspects like an opposition or square.

☉ in ♉ - ☽ in ♋ Two Cardinal Signs, a square: the emotional need for independent security takes on a social dependency. There is a developmental tension: reaching out for companionship, absorbing the worth of others for personal security. The Self needs social flattery and approval. The Self can trust others too much. Lessons are learned. These positions carry social assets with them. The challenge is to develop the balance to work with emotions profitably and build security through relationships. The sensitivity of Self can too easily ignore the sensitivity in others.

☉ in ♊ - ☽ in ♋ Two Water Signs, a trine: the emotionalism can too easily plumb the depths and reach the heights. Magnetism and dramatization of the Self are possible as well as a hedonistic, impressionable morass of self-indulgence (the Moon is in its Fall). Pride and jealousy can be denominations of emotional capital. The positive direction of this trine will be through an aspect of high focus and active energy: the sympathy for the broad spectrum of emotions can inspire grand insight and control of

expression in the Self and through others. Magnetic control over others becomes an extraordinary virtue when the goal is lofty and humanistic.

☉ in ♉ - ☾ in ♈ Idealism lifts the emotions. High goals are set. The beautiful, the aesthetic, the ethical, the philosophical all have great attraction. Philosophy and intellect take over emotional acquisitiveness to provide security and fulfillment. The plan for security has a long, broad, and lofty range.

☉ in ♉ - ☾ in ♋ Opposition, Moon in its Detriment: emotions and practicality fight for the center of the stage. Purposes are accomplished without hurting the feelings of others. The hard exteriorization of business activity is softened by the Cancerian emotions. The office could very well be in the home. Affection is needed on the job. Deep self-knowledge.

☉ in ♉ - ☾ in ♁ The emotionalism is translated into terms of the large society. Unique position is often attained through the spirit of opportunism and innovative expression of ambition. These positions are those of the public figure, the humane aristocrat. The danger is that innovation will get out of hand and emotional sensationalism will develop. Emotional identity can be linked to the unusual subgroup rather than to the large majority. Then, emotional security gains introversion and unusual self-indulgence.



☉ in ♉ - ☽ in ♋ Two Water Signs, a trine. Lewi wrote: "You have a sailboat personality; you tack with the wind and tide, shift your ballast, alter the top rigging, and keep in cahoots with the weather conditions as you find them." The emotions flow flexibly, subjectively and objectively. Giving and receiving find a balance. The Self can be so agreeable and so pleasant that a stand of opinion is elusive. Intuition is high and can lead to success. The emotional emphasis needs a tie-in with a stronger anchoring aspect.

### *Sun in Leo*

☉ in ♌ - ☽ in ♎ Two Fire Signs, a trine. Exceptional courage: the "heart" and drama of Leo are expressed with a fluent ego command. Emotional and physical drive propel the life quickly and easily. Too easily, the aims are solely subjective in work and love life. Objectivity frees the leadership qualities of these positions and presents limitless opportunities.

☉ in ♌ - ☽ in ♎ Two Fixed Signs, a square, Moon exalted: the fire of rightness supports the structure of the personality. Stubbornness is handmaiden to dramatic self-confidence. A sense of proportion through relationship with other modifying aspects can resolve this developmental power and focus it to tremendous effort. Moods are "puffy" and heavy unless personal freedoms and ideals are well received.

☉ in ♏ - ☽ in ♊ A sextile: action and ideas are impressed upon others dramatically. Glibness and flexibility work to establish the Self as easily as possible. Romance and multiplicity in feelings accompany these positions.

☉ in ♏ - ☽ in ☾ The Moon rules Cancer; the Sun rules Leo. The personality has the sensitivity and instincts to dramatize the Self congenially. The emotions are well organized and intense. The self-worth is assumed and does not require constant attention. The Self has "heart," has appeal. Romance and family love are very important.

☉ in ♏ - ☽ in ♏ Conjunction. The ambition is forceful, dramatic, and successful. A glamorous front can hide a stern, hard commanding nature. A slight or a hurt committed against the Self receives swift, complete retaliation. Pride and vanity are strong.

☉ in ♏ - ☽ in ♎ Personal drama is subdued somehow, and mental and detailed preparation and study replace flair. Self-sureness is not complete, but common-sense caution saves the day. There is a strong desire to please, more successful in the small ways than in the grand.

☉ in ♏ - ☽ in ♌ A sextile: independence gains ideals and romantic outlets through society. Warm-hearted sentiment adds attractiveness to the identity. Although

the personal philosophy may be at odds with what is expected, adherence to integrity and convention is respected. Sentimentality displaces ardor, theory displaces passion. Grand schemes are conceived and, with strength from focused aspects within the horoscope, can be realized.

☉ in ♈ - ☾ in ♋ Two Fixed Signs, a square, the Moon in its Fall: animal passions are strong, vigorous. The body and the temperament are dramatic. Excesses of emotional explosion are possible, but actually, they are not necessary since the control factors of these positions are also highly developed. Everything is affected by personal opinion and bias. The start of life might have been poor and depressed and provides in adult life the motivation for overcompensation. The developmental challenge is to control grand power and understand its motivation.

☉ in ♈ - ☾ in ♊ Two Fire Signs, a trine: drama, daring, adventure, love...all gain a lift from the Moon in Sagittarius. Ideals catch fire; travel and new views from many sources lead to the fulfillment of ambition. The flow is almost too easy: the enthusiasms can burn up all the fuel. One can too easily ride through life on appearance and desires rather than effort and accomplishment.

☉ in ♈ - ☾ in ♌ The Moon is in its Detriment. The great Leo energies are tied to purpose and administration. Demands are made and the energy sees that the

demands are met. This relationship between the Sun and the Moon is extremely powerful.

☉ in ♏ - ☽ in ♁ Opposition: idealism and romance are extended to society and fellow-man. Creative imagination takes the life-energies and develops them for humanitarian service. The drama is in personal projection or personal reflection. Support is needed to take the energies to external application, to objectify loyalties, and fulfill emotions in relationship.

☉ in ♏ - ☽ in ♀ Aggression and defensive sensitivity moderate personality expression. "You understand the value of material expediency, though in moral issues you will not give an inch" (Lewi). There is a keen sense of philanthropy; the king caring for his subjects. The motives are usually the highest.

### *Sun in Virgo*

☉ in ♍ - ☽ in ♀ The external expression is very self-assured, but the internal feeling is perhaps timid. It is difficult for the Self to meet the demands of the personality: the tail wags the dog. High ideals are expressed, but the action to realize them bogs down in delay and finical attention to details. Reversing the process solves the problem: act first and publicize afterwards.

☉ in ♍ - ☽ in ♋ Two Earth Signs, a trine, Moon in Exaltation: material problems rarely are a bother.

There is a luck with security. Relaxation can divert energies from building the assets to greater gains. Necessity to invigorate effort is often absent. A focus aspect is necessary to make the Self aware of new avenues of growth.

☉ in ♎ - ☽ in ♋ Two Mutable Signs, a square: again, mind power is the strength and weakness of these positions. Analysis can build structure for energy application; overanalysis can neglect cultivation of the emotional side of life. Intellectual feelings of superiority can bring opportunities for illumination or can blind the Self to the opportunities for creative application. All work and no play. The developmental tension seeks modification to warm the energies and achieve balance.

☉ in ♎ - ☽ in ♌ A sextile; the Moon rules Cancer. The reserved nature gains an emotional warmth. Shyness and charm are built upon a specific and conventional code of behavior. But the need for social security can vary the code often to suit the needs of the moment...but the code remains a code, so necessary to guide the details of life. Self-justification becomes an art form. Matters of personal fastidiousness and health become very important, overly sensitive subjects. Temperament shows during work situations, when perhaps the emotions are frustrated with the "dry" rate and style of development. Reticence is too easy but becomes a plus factor when allied to a powerful focused aspect elsewhere in the horoscope.

☉ in ♏ - ☽ in ♏ Devotion to duty. This devotion makes the Self exploitable by others. Conscientiousness is a little too passive. Push is needed to take devotion to duty toward a goal so that work does not exist as a goal unto itself. You tend to hide your light under a bushel.

☉ in ♏ - ☽ in ♏ The focus is upon the intellect in this conjunction. The mind rules the life: critical, delaying, idealistic to the extreme perhaps. The high sense of discrimination orders convention and denies energetic progress. Principle and dignity are important. Conservatism blankets innovation. Positively: leadership is followed to the letter, and support work for someone with drama and innovation is correct, accurate, reliable.

☉ in ♏ - ☽ in ♎ The mind leads the social relationships. A snobbery can develop when the Self seeks a mirror image or an image built to its own specifications. Peace is necessary and is often achieved through mental isolation. There is a broad social hope for personal significance and a patience to see it fulfilled, but a measure of intuition and drive is necessary from elsewhere in the horoscope to light the fire.

☉ in ♏ - ☽ in ♏ Sextile, Moon in its Fall: the intellect and convention gain emotional projection. The fixity of Scorpio gives intellectual opinion a life hold on the Self. Blind reform in personal terms can become a cause célèbre...the missionary spirit. The intellect loses realism

here and the emotions overexaggerate the self-importance.

☉ in ♍ - ☽ in ♊ Two Mutable Signs, a square: adventure, romance, excitement, foreign exploration all give a lift to the mental process. The intellect loses its normal Virgo earthiness. The developmental tension is at odds with personal conventions. The larger concept loses contact with the routine concepts. The emotions can be involved to relate to an idea, an ideology, a concept, rather than to a reality. Philosophical experimentation too easily leads away from routined security. The challenge is to use innate patience and research ability to get to the bottom of large, new ideas, to understand them thoroughly and incorporate them into a growing identity.

☉ in ♍ - ☽ in ♋ Two Earth Signs, a trine; the Moon in Detriment. The mind takes the Self to positions of influence and administration. Accuracy and devotion to a goal create success. The power of persuasion is fluid and strong. Self-sureness permits unusual extroversion. The nervous system seems to have found its best outlet. Delays for idealism and timing seem to find auspicious outlet in significant organized activity. —Again, note that the trine improves the dignity of the Moon.

☉ in ♍ - ☽ in ♌ There is an emotional detachment in these positions. The mind finds easy social application and works quietly and attentively in service to an ideal.

☉ in ♎ - ☾ in ♋ Opposition. Insight is the great gift: detailed waiting for the ideal is fulfilled in sensitive reaction to experience. Intellect gains awareness of intuition. In excess, awareness of the world's problems can cause personal depression. There is a deep sympathy in these positions, often a martyrlike dedication to ideals, to the thoughts and feelings of others. The challenge is to adapt this sensitivity to service to a goal outside the personal realm.

### *Sun in Libra*

☉ in ♎ - ☾ in ♈ It is very important to note that the Sun in Libra is in its Fall. The nature of the life-energy always to have balance between ego assertion and social reception is demanding. —With the Moon in Aries, this opposition reveals the external drive of the individual flair, which belies the basic life-energy need to live in peace, not to make waves, to live and let live. Sensationalism and flamboyant romance can gain great attention since they begin upon a social base. If independent individualism gains the upper hand, there is no limit to the unusualness of the self-image. There may be little concern about social security and balance, and the free-wheeling ego can approach the eccentric.

☉ in ♎ - ☾ in ♉ Both Signs are ruled by Venus, and the Moon is exalted: charm. The personality has a reserve and consistency that attract affection and appreciation. The personality is the major asset. There is



a strong aesthetic inclination that will usually be expressed in human interest terms, Sentimentality.

☉ in ♎ - ☽ in ♊ Two Air Signs, a trine: the social personality is voluble, expressive, articulate. There is an ease about expression and socializing. An audience is needed and is never displeased. The romantic dimension is emphasized. The challenge is to tie-in the ease of expression with a substantive goal and mission.

☉ in ♋ - ☽ in ♌ Two Cardinal Signs, a square; the Moon rules Cancer: the social base gains through the sensitivity of the personality form. Emotional adjustments are easily made. The flexibility and adaptability of the personality can become a weakness, a shallowness, if the desire to please becomes too strong. The developmental tension is to relate the social sensitivity to focused work with people, with a specific goal or service defined.

☉ in ♎ - ☽ in ♏ A sextile: social idealism is expressed dramatically or artistically, a noble romantic. Strong aspects are needed to spur development of substance within this easy flow of naïveté. "You remember the pleasant and forget the unpleasant—an admirable trait in personal dealings so long as you learn by experience what sort of thing to watch out for the next time" (Lewi).

☉ in ♎ - ☽ in ♍ The mind takes over much of the social nature. The romantic emotions are taken over

by a critical, discriminating analysis. Studied, "proper" details displace natural, social response.

☉ in ♌ - ☽ in ♌ Conjunction: the emphasis is upon the romantic, with a deep faith that others will always help the personal interests. This faith opens the Self to leadership by others, to imposition through flattery, hurt through romance. The planet Venus will be very important in the horoscope. Anything that is less than aesthetically pleasing and beautiful—in speech, drama, action, art, love—will be resented and pushed away. Fleeing the real world can lead to unusual experiences in the occult and the privately sensual.

☉ in ♌ - ☽ in ♎ The Moon is in its Fall. The deployment of the Self is almost completely concerned with the absorption and exploration of others' resources. Functional independence becomes grounded upon the legacy. Ambition is anchored in awareness of the ways of others, the whole spectrum of their feelings and philosophies. Living by one's wits. Rebellion and reform are keen motives. Quick, perceptive study of others' situations allows individual constructs of sharp, aggressive form.

☉ in ♌ - ☽ in ♈ A sextile: a lift is given to the ideas, aspirations, adventure, and romance. Pride and independence are rooted in a personal philosophy that can be quite impractical within the reality of day-to-day business. There is high physical activity, travel, and social sense. There is a possibility that one becomes high-strung

from the enthusiasm and far-reaching ideals that all too easily become adopted and practiced without grounding in experience and detailed study.

☉ in ♈ - ☾ in ♋ Two Cardinal Signs, the Moon in its Detriment, a square: purpose is achieved, possibly ruthlessly, through people management. Methods can be sharp and shrewd and subtle. Self-respect is grand and can range from boldness and arrogance to the stealthily diplomatic. The good opinion of others is essential for the Self's purpose. The awareness of the needs of the Self balances the ability to make the goals come true. The developmental tension is in the balance necessary to preserve the group opinion needed for peace and self-reflection.

☉ in ♈ - ☾ in ♊ Two Air Signs, a trine: the romantic of the romantics. "Affection and love are not only physical needs but assume the proportion of a philosophy, a creed, a coat of arms. An overtone of good taste and breeding lends sanction to your most unconventional escapades and raises you from the purely sensational to the higher planes which your ideology demands" (Lewi). Imagination can get an easy upper hand and the artist-at-heart becomes stranded from specific function.

☉ in ♈ - ☾ in ♋ The receptivity of Pisces nourishes the social poise and popularity of Libra. Shyness, impressionability, romance, sincerity. The mind deals easily with abstractions and intuition and can instantly

sense the insincere; a student of human nature. The personality absorbs all and never threatens, gaining popularity and acceptance easily.

### *Sun in Scorpio*

☉ in ♈ - ☽ in ♈ The deep fixed focus of Scorpio upon the Self and the Aries energetic promotion of the Self create a realistic, vitally framed ego attention. Loyalties are to people, not ideas. Emotions run a broad gamut: from self-pleased triumph to vitriolic resentment. The fight and the struggle invigorate the challenge. Ardent in love and ambition, demanding and vain. Refinement comes through more sensitive relationship with the *feelings* of others.

☉ in ♈ - ☽ in ♉ Opposition, Moon exalted: the vast life-energy spectrum gains formidable structure. Everything is conceived in the grand manner. If the emotional component does not run away with the ambition, the material construct will be awesome. Opportunism and pragmatism blend: it's right if it works. If the emotional side gains the upper hand, the structure falls behind the ambition and, in collapse, is camouflaged by the ego.

☉ in ♈ - ☽ in ♊ The socially pleasing Gemini gifts of humor, articulation, and diversity are given more substance and anchor in these positions. Indecision still

threatens stability, and concentration and planning must salvage things, *not* emotional reaction.

☉ in ♋ - ☾ in ♉ Two Water Signs; the Moon rules Cancer; a trine: magnetism, self-confidence. There is an extreme sensitivity, an emotional expansiveness, but always the energy works to bring others *to* the Self. Others are absorbed. Suspiciousness and shrewdness accompany emotional demands. When given security and goal focus, the impressionability and understanding of emotions can be applied to very good advantage. If debilitated, the complex dissolves into quarrelsome bickering about slighted emotions and threatened security.

☉ in ♋ - ☾ in ♎ Two Fixed Signs, a square: the strength of the personality is in fixed opinions, fixed emotions, and a strength of purpose. Again, the danger is that the emotional dimension will run away with the personality and dramatize only a low level portion of the Self's needs. Very high standards are set for others, and adherence is exacted from them. Sensationalism is always just around the corner. The developmental tension is resolved when the complex ideologies of life conduct are altered to relax expectations of others and broaden service of Self.

☉ in ♍ - ☾ in ♏ A sextile: the mental acuity of Virgo combines with the deep emotional self-awareness of Scorpio so that there is never any doubt about the Self's

opinions and profile. Expression of codes is made with disarming openness. Ambition is for intellectual expression, emotional security, personal recognition. Intellectual reform satisfies. There is an inclination to test private theories upon others, but always from a subtly superior position. Things are as the Self sees them.

☉ in ♏ - ☽ in ♌ The ardent Scorpio supposes everyone thinks his way. In social traffic, collisions occur, lessons are learned. Self-confidence and pride finally learn a social ease, and a judicial discrimination protects the self-esteem. Personal idealism gains worldliness.

☉ in ♏ - ☽ in ♏ The Moon in its Fall; conjunction: the focus is upon the creative depths in Scorpio. Enormous energy and animal magnetism are found in creativity, expansive emotional expression, or study of life's mysteries. Self-discipline is needed in order not to dominate sexually, philosophically, or behaviorally. Vanity is high, and the need for appreciation and recognition is great. The strength of this focus deplores weakness in others. The missionary spirit peaks upon a monument of individual self-belief. The challenge is to share rather than command.

☉ in ♏ - ☽ in ♏ The idealism of Scorpio receives a lift. The philosophic realms separate from the emotional depth. Confusion enters where it is intrinsically least expected. Reality is shielded from practical self-application. Honor and ethical service attract all the Self's

extreme depth, though the reason for the lofty attachment is curiously elusive.

☉ in ♈ - ☾ in ♏ A sextile, the Moon in Detriment: the strength, magnetism, and animal savvy of Scorpio gain purposeful administration through the Moon in Capricorn, a ruthless application of self-aware strategies. Authority transcends all: the man who is important is the man to please. The plight of the underdog gives a challenge to the Self's discovery-and-fight mechanisms. Opinions become strategies to be weighed. Sex is important for self-assurance. Grace is only a passing, momentary concern: the goal at hand dictates the power used. The need is for a goal high enough to lift the power to its most refined form.

☉ in ♈ - ☾ in ♋ Two Fixed Signs, a square: humanitarianism softens the vain pride of Scorpio. Applause is needed but only when the Self knows service has been accomplished. The high ideals and almost visionary ambition set high goals. There is a great understanding of the suffering and combat within life. Emotionalism finds itself expressed best through deed rather than demand. The Scorpio here finds a place in the world and holds on to the worthy goal with all its strength.

☉ in ♈ - ☾ in ♉ Two Water Signs, a trine: intuitive intellectualism. The spectrum of feelings and exploration needs of the Scorpio are refined by the sensitive receptivity of Pisces. Infinite discrimination guides

personal strength among concepts, people, feelings, and ideals. The inner side pleases and can offer comfort when reality becomes momentarily unyielding. There is an instinct for the "right" thing.

*Sun in Sagittarius*

☉ in ♐ - ☽ in ♏ Two Fire Signs, a trine: an energetic pioneer in many dimensions. Philosophy, travel, ideals, social concepts, and sports all provide an outlet for enthusiasms and opinions and a stage for the Self. Principles of honor give unbounded courage to self-presentation. The spiritual can gain a deep hold upon the energies of the personality.

☉ in ♐ - ☽ in ♉ The Moon is in Exaltation in Taurus: the personality form absorbs the Self's awareness of the world and its ways and builds an aesthetic or business structure through which large idealism can express itself. Education and the arts are very important. These positions present a fine wedding of lofty ideals and pragmatic security.

☉ in ♐ - ☽ in ♎ Opposition: security flies to the winds; diversity and traveling enthusiasms bring transient rewards. Articulation and the resources to call upon the loftiest of principles turn vacillation and nervous impulse into profit. The deftness of getting something for nothing—or very little—appeals to and challenges a world



of techniques. The great talent for opportunism needs an anchor and distillation of directions to ward off bad judgment and transform bright technique into thorough service.

☉ in ♋ - ☾ in ♋ The Moon rules Cancer. The emotional system complements the higher mind and a highly intuitive, poetic, sensitive adaptability refines the enthusiasms. Emotional approaches are readily understood. There is the possibility of gullibility. The goal must not be too far out of reach for the emotional embrace. The new always fascinates. Focus upon practical realization is needed.

☉ in ♋ - ☾ in ♎ Two Fire Signs, a trine: honor and ethics rule the life. Justice is due those who take life seriously. Imagination and creativity can often take dramatic forms. Loyalty and ideals are at their highest. These positions attract applause and success.

☉ in ♋ - ☾ in ♍ Two Mutable Signs, a square: the higher thoughts of Sagittarius gain a practical, detailed grounding through Virgo. The natures of both Signs mix easily on the mental plane. The charm of the personality is in the ability to communicate lofty themes with immediately usable, practical suggestions. The developmental tension is to avoid anxiety about the process of communication and to warm it with attention to the emotional side as well.

☉ in ♊ - ☾ in ♋ Sextile: social activity provides outlet for expansive ideas. Generosity becomes a vulnerability since to be charitable and helpful meets the personal ideals perfectly but ignores the possibility of being fooled. Permanence seems to deny new opportunities, and perhaps a wanderlust grows for new experiences, new gatherings.

☉ in ♊ - ☾ in ♌ Arched inspiration gains solidification quickly. The Self demands opportunity to prove its worth. Just enough reserve is added by the Moon's position to allow emphatic, clear, appreciated expression of personal opinion and philosophy. There may be an outer hesitancy about showing emotion, but with encouragement, Self humor and appreciation of others are easily expressed. —Note that the high level of Sagittarius with the Sun keeps the Moon more positive in the Sign of its Fall.

☉ in ♊ - ☾ in ♊ Conjunction: nervous, intellectual energy is the strength and the weakness. The switching between ideas and the spirited devotionism to varying ideals muddle the process of judgment. Deeper study to catalog the tenets of the Self is difficult. Superficiality may become the image. Reform appeals when it is based upon personal ideas and beliefs. The need is for calm and depth. Removal far from the birthplace or land is most likely.

☉ in ♊ - ☾ in ♍ The higher mind finds purpose and administrative outlet. There is a terrific sense

of humor possible since the mind can apply its energy adroitly and effectively. The idealism of Sagittarius gains a force of leadership. When thwarted, the Moon in its Detriment is capable of harsh, self-righteous indignation.

☉ in ♊ - ☾ in ♋ Sextile: independence, social awareness, idealism. Philosophy serves the world view or justifies the eccentricities of the Self. Ideas rule and lead the personality to a self-comfort that can combine effectively with sharp focus elsewhere in the horoscope or be frittered into nervous pieces and empty zeal.

☉ in ♊ - ☾ in ♋ Two Mutable Signs, a square: the higher mind gains tremendous support from intuition. These are the positions of the philosopher. Life and mind occupy different planes. They may be victimized by reality.

### *Sun in Capricorn*

☉ in ♑ - ☾ in ♈ Two Cardinal Signs, a square: the drive of purpose and ambition continuously charge a personality determination and mental application that are fearless. The mind is constantly at work stirring up new ideas and schemes. Work consumes the Self. There is a flickering touchiness. The developmental tension is to find moderation and efficient tie-in with specific goals; to administer less and feel more.

☉ in ♋ - ☾ in ♌ Two Earth Signs, a trine, the Moon in Exaltation: a dream for people management. Opposition baffles when it comes, so self-assuming are the people strengths. These positions describe the leader among the men he leads.

☉ in ♋ - ☾ in ♊ Ambition finds its best outlet through the intellectual, creative, or scientific dimensions. Talk can get ahead of deed. There is a conflict between conservatism and innovative vacillation.

☉ in ♋ - ☾ in ☾ Opposition, Moon in its Detriment: practicality and emotions compete for the center of the stage. Peace and security are the best base for ambition. One must balance the other. Emotions are kept hidden once they have security. The administration of ambition is more gentle and less demanding.

☉ in ♋ - ☾ in ♏ Powerful administrative authority; vigorous and vital personality. The ways of ambition are highly dramatized. Detachment creates efficiency. Materialism and self-belief are powerful forces to persuade others. Precision.

☉ in ♋ - ☾ in ♎ Two Earth Signs, a trine: timidity is hidden behind a strong, self-assured exterior. Principles are analyzed better than programs are administered. The nervous system can be highly charged, feeling ambition-fuel and proposing work-mountains, only to fall behind in execution. Then, a private intellectual snobbery

defends the Self. Work projections are too easy through these positions; they require perspective and discipline.

☉ in ♈ - ☾ in ♎ Two Cardinal Signs, a square: ambitious self-containment belies the need for social support. A prima donna detachment can evolve. The challenge is to achieve compromise.

☉ in ♈ - ☾ in ♍ A sextile, the Moon in its Fall: tremendous inner drive and temperament. Reserve holds back many bold opinions. Compromise is learned, yet it takes a truck to budge core opinions. Emotions do not interfere with reasoning. The Self gains strategic power by bending to accommodate.

☉ in ♈ - ☾ in ♊ Ambition gains a lift in expressivity, range of opinions, and social acceptance. Nervous enthusiasm abounds; intellectual pride and restless acquisition of all that is new charm but exhaust.

☉ in ♈ - ☾ in ♈ Conjunction; Moon in Detriment: ambition and the power to overcome obstacles are at their highest. Physical handicaps in early life could be the stimulus for overcompensation in adult life. Selfishness and an appetite for power are possible. Realism, order, punctuality, precision, self-control, and reason are all highly valued.

☉ in ♈ - ☾ in ♁ Determination and ambition find secure, fresh applications, probably through

humanitarian or social channels. Stability of purpose and performance brings success.

☉ in ♊ - ☽ in ♋ Sextile: ambition gains an awareness, a reception by the world that softens the aggressive bite. Humanitarian understanding seasons the administrative image. Charity and helpfulness displace power motives. Satisfactions are personal and private. Responsibilities are assumed easily...and this can invite being opportunized.

### *Sun in Aquarius*

☉ in ♒ - ☽ in ♃ Sextile. Lewi wrote: "You have a quick, aggressive mind, a keen sense of your own intellectual powers, and a sort of judicial attitude toward the rest of the world. This is one of the positions of a genuine superiority complex." The mind flames too brightly. The social balance must be considered in order for the mental and show powers to work efficiently.

☉ in ♒ - ☽ in ♄ Two Fixed Signs, a square, Moon exalted: there is a dynamic blend of the intellectual and the emotional. Both constructs are very self-content. Ambition is lacking. Personal development is more important than work to achieve public recognition. Dependency and loyalty are important dimensions of romance. The developmental tension is to find application and significance for private talents.

☉ in ♊ - ☽ in ♊ Two Air Signs, a trine: a tremendous flow of self-drama in the arts, in romance, in intelligence. Indecision undermines substantive innovation. The positions need a tie-in with reality and focus.

☉ in ♊ - ☽ in ♋ The Moon rules Cancer. A tremendous ability to respond to other people. The mere hint of an offer of emotional security completely triggers the Self's response of emotional giving. Imbalances in the rest of the horoscope can lead to a prostitution of self-values and a loss of personal bearing.

☉ in ♊ - ☽ in ♎ Opposition: intellect and emotions vie for the center of the stage. Speculation gains so much innovation that it can run away with the logic of reality. There is pride, independence, and a unique self-dramatization. Within difficulty, the Self seeks to flee rather than readjust.

☉ in ♊ - ☽ in ♎ Mind power, reason, critical observation, innovative deduction are all assets. Debate and discourse unlock all the values of the Self. The emotions are bound up with the thinking process. The mental emphasis easily ignores the emotional dimensions of life.

☉ in ♊ - ☽ in ♋ Two Air Signs, a trine: the social and the romantic become extreme in their importance. The duplicity of others is dumbfounding since the

Self values highly its own loyalty and stolidity. Tolerance and sympathy are learned. The ease within society is so easy as to dilute persistence.

☉ in ♏ - ☾ in ♎ The Moon in its Fall, two Fixed Signs, a square: the Self feels that it is indispensable. The intellectual dimension is keen and pleases privately. Work with others just proves the fact that the ego is indeed very important. Everything is built upon the Self's abilities and energies. The developmental tension is to relate to a compelling reality force so that the Self's position within a larger whole gains perspective, direction, and recognition.

☉ in ♐ - ☾ in ♏ A sextile: the Sagittarius position lifts the intellectual process to an even greater independence and higher level. There is the quality of intellectual honesty and broad, international viewpoint. Romance is intense and idealistic. These positions bring great good fortune within a strong horoscope, and friends work wonders in helping self-promotion.

☉ in ♏ - ☾ in ♏ The Moon in its Detriment. The humanistic dimension of the Self is administered to the public through the intellect. These are the positions of a public leader: the rugged individualistic campaigner who sways the crowd. Humanism and facts combine perfectly. —Both Capricorn and Aquarius share Saturn as ruler. The Moon gains dignity in relationship with the Sun in these positions.



☉ in ♁ - ☽ in ♁ Conjunction: invention, science, analysis, and research gain focus. Unusual friends are collected to form an admiring circle.

☉ in ♒ - ☽ in ♓ The unusual, innovative qualities of Aquarius are reinforced by the receptivity of Pisces. Intuition and influences from the occult, the mystical, and the religious blend the real and the unreal, the practical and the theoretical, the scientific and the poetic. Without strong structure from the rest of the horoscope, these positions can bring self-delusion.

### *Sun in Pisces*

☉ in ♓ - ☽ in ♃ The Self is more reserved than it appears; more self-sufficient than it shows. Temperament nourishes and defends expression. Occasional bravado protects a sensitive core.

☉ in ♓ - ☽ in ♋ Sextile, Moon in Exaltation: the intuition gains a secure structure in reality. Sensitivity abounds, and the aesthetic leads to creative expression or appreciation. Love reaches the Self and attracts a deep loyalty.

☉ in ♓ - ☽ in ♊ - Two Mutable Signs, a square: vacillation between nervous temperament and acquiescence, usually in situations that call for the other reaction! Discourse and salesmanship are employed chiefly to convince the Self first. The intellect is so facile that it gambles

with conclusions: intuition assures that one will emerge; glibness assures that the one that emerges will be sold. The developmental tension is to gain an anchor for the decision-making process, that it need be constructed no longer upon whim and then stubbornly enforced to save face.

☉ in ♋ - ☽ in ♋ Two Water Signs, a trine, Moon rules Cancer: intuitive feelings and lush emotionalism are cultivated through shyness and diplomacy. The martyr complex gains easy expression when the Self is hurt. The well of feelings springs from a deep treasure of ego awareness. Versatility often uncovers several ways to gain an audience.

☉ in ♋ - ☽ in ♏ The dramatization of the Self alternates between two poles: the reticent, unassuming, receptive peacefulness and the expansive, aggressive, theatrical blow-hard. Lewi observed: "You give the impression that there are many things you could do if you wanted to. You fail to because of a fundamental lack of willingness to engage in competition. Your apparent sureness is a manner rather than an actuality."

☉ in ♋ - ☽ in ♎ Opposition: discriminating intellect communicates the sensitive intuition. Tolerance, perception. There is usually a warm sense of humor: details of life are understood in wry ways. An imbalance within this opposition from aspects elsewhere in the horoscope can break the bond between intellect and intuition. Then, one feels lonely in every crowd.

☉ in ♋ - ☾ in ♌ The intuition gains aesthetic expression through people and in the arts. The emotions have a grand exposure to society and work overtime to adapt social situations to temperamental needs. There may be a curious repression: when society turns things around and demands that the Self's emotional needs adapt to those of others.

☉ in ♋ - ☾ in ♎ Two Water Signs, a trine, the Moon in its Fall: intuitions and emotions are given a broad spectrum and a keenness of registration. There is a satirical sense of humor. There may be a preoccupation with the morbid, the occult, the mystical, or the religious, causing a confusion often in the life. Sex becomes very important.

☉ in ♋ - ☾ in ♉ Two Mutable Signs, a square: the lift given to the intuitions may make the visionary powers illusory or highly impractical. With the disciplines of education, the lofty feelings and thoughts create a grand, profitable awareness of the world. There is a pervasive spiritual quality. The idealism finds form in large concepts, expansive canvasses.

☉ in ♋ - ☾ in ♏ Sextile: sensitivity seasons ambitious administration; the feeling businessman. The abstract and the concrete, the ideal and the practical, the visionary and the applied are all blended to administer the Self. The strength of the personality is in its reserve.

☉ in ♋ - ☽ in ♎ Humanitarianism: orthodoxy, missionary enthusiasms, awareness of what is best for the world.

☉ in ♋ - ☽ in ♋ Conjunction: the focus upon the subliminal, the intuitive, the avant-garde makes the Self quite unusual. Introspection focuses rightness upon the Self. Reality can slip away unless others' views are respected. Positively: tact and sensitivity can lead to positions of authority when skills are followed over emotions.

Working with these capsule descriptions and the invaluable elaborations written by Grant Lewi in *Heaven Knows What*, the student will quickly gain a feel for these combinations. The special strengths of Cardinal, Fixed, and Mutable Signs (Volumes I and II) become apparent in these combinations. The aspects formed between the *lights* within Element and Mode Families create a strong focus upon certain characteristics in the conjunction, an ease of flow in the sextile and trine, a developmental tension in the square, and a powerful polarity of awareness in the opposition.

### Lights and Planets in Mutual Aspect

Aspects between the planets complement the core consideration of aspects between the lights with their element and mode relationships. Almost always, the Moon and Sun are related to *other* planets as well through

aspects: further focus, support, ease, tension, or awareness is provided. Then, the interrelated energy field gains experiential significance through the Houses occupied by the planets.

Patterns and groups are formed to organize the many different dimensions. The next volumes in this series will study patterns and synthesis almost exclusively. The objective is to consolidate measurements and, at a glance, to appreciate the horoscope *as identity*.

In studying the extremely abbreviated aspect descriptions that follow, remember that the focus of a conjunction needs *application*, the support and ease of a sextile and a trine need *incorporation*, the development-tension of a square needs *fulfillment*, and the awareness-tension of an opposition needs *resolution*. —The sextiles will not be separately described; the meaning of a trine applies to the sextile as well only less sweepingly, on a smaller scale. The meaning of a square takes on a static balance when the same two bodies are in opposition.

Note: Aspects take on “heavier” meanings, more dramatic significances, the more slowly the planet involved moves, the farther away in orbit it is from the Sun. Additionally, for the swifter planets, a greater degree of exactness of aspect—a smaller orb—is needed for maximum registration. These descriptions organize the planets within their order of speed and distance: Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, and Pluto.

*Sun*

- ☉ ♂ ♀ A sound mentality. Focus is upon the Sign, expressed in the intelligence and poise of the mind.
- ☉ ♂ ♀ Idealism, personal appeal.
- ☉ ♂ ♂ Impulse, high energy, speed, intensity. Needs control.
- ☉ ♂ ♃ Good luck, magnanimity, largesse, pride, indulgence, enthusiasm.
- ☉ ♂ ♁ Lone wolf. Self-absorbed intensity. Independence. Personalized ambition needs competitive spirit to grow. Assuming.
- ☉ ♂ ♃ Nervous tension. Anxiety about the Self's uniqueness. Rest and creative outlet needed.
- ☉ ♂ ♃ Fantasy, spirituality, imagination, self-intoxication; creative ability or self-delusion.
- ☉ ♂ ♁ Focus upon redeeming, reforming, rejuvenating the Self image. An identification with the public. Turning one's Self inside out for revolutionary renewal. Psychoanalysis.

Mercury and Venus are never more than 28° and 46° away from the Sun, respectively. A square, trine or opposition between the Sun and Mercury or Venus never occurs.

- ☉ ☐ ♂ Dynamic energy. Clash. Passion. Accident. Temper. Quarrels. Overexertion. Disruption. Vitality.

- ☉ □ ♃ Expansive indulgence. Energies probably wasted. Too much attention to the good things of life. Exuberance. Legal problems. Social prestige important.
- ☉ □ ♄ Ambition linked to personal dignity. Tremendous drive. Nothing is permitted to interfere with ambition. Shrewdness develops with experience. In a woman's horoscope: difficulty with men, probably originating with the father.
- ☉ □ ♅ Separations. Temperament. Wild beginnings. Intellectual development ahead of emotional development. Independence. Liberalism. Self is right; the world is wrong.
- ☉ □ ♆ Fantasy. Impressionability. Loss of focus. Sensationalism. Dreams. The bizarre.
- ☉ □ ♇ Self is hidden, covered over to conserve, gain, or subdue personal powers. The underworld. Subtle control of others.
- ☉ △ ♂ Abundant physical vitality. Leadership. Tireless force.
- ☉ △ ♃ Enthusiasm, good spirits, luck, social. Inheritance.
- ☉ △ ♄ Upbringing important. Gain through elders. Inheritance. Serious without depression. Self-satisfied. Maturity.
- ☉ △ ♅ Superb good luck in the nick of time. Easy success usually. Progressive outlook. Innovative.

- ☉ Δ ♀ Charm, magnetism. Beneficial fantasy and creativity.
- ☉ Δ ♁ Public appeal or lure. Deep understanding of significance.
- ☉ ♂ ♂ Face to face with energy. Stop and start. Outlet sought.
- ☉ ♂ ♃ Religious, philosophical beliefs tested. Legal problems. Enthusiasms need outlet and modification.
- ☉ ♂ ♄ Severity. Great sense of responsibility. Worry, anxiety, delay. Health danger.
- ☉ ♂ ♁ Sudden separations, crises. Independence problematic.
- ☉ ♂ ♀ Fantasy life brings self-deception, or deception by others.
- ☉ ♂ ♁ Breakup of order. Disappearance of values.

*Moon*

- ☾ ♂ ♀ Wit. Cleverness. Easy superficiality.
- ☾ ♂ ♀ Grace and charm. Social ease. Vanity. Material good fortune.
- ☾ ♂ ♂ Overcompensation. A demand for success. For women: a charm and magnetism with men. —Independence of spirit, drive.
- ☾ ♂ ♃ Personal worth highly emphasized. Social awareness.
- ☾ ♂ ♄ Serious ambition. Thorough preparation of



effort. Depth. Ego emphasis to gain control and authority.

- ☉ ♂ ♀ High individualism, outstanding and unique traits. The avant-garde is appealing. Intellectual potential.
- ☉ ♂ ♀ Insight, intuition, imagination. Self-definition can be lost. Introversion. Self-indulgence.
- ☉ ♂ ♀ Self seeks significance and revolutionary opportunity for public display. Subtlety within grand plan. The ability to destroy for renewal.
- ☉ ☐ ♀ Articulate, expressive, witty. Persistence and depth needed.
- ☉ ☐ ♀ Sensitive about personal popularity. Uneager to meet social expectations and standards. Possibly part of an inferiority complex.
- ☉ ☐ ♂ A house afire. Early brilliance and success. Fulfilling the image in later life demands overwork, overexertion. Conflict is with tendency to ride the reputation and relax. Alcohol and medicines are difficult for the system to assimilate. Enormous urge to become.
- ☉ ☐ ♀ Optimism about finance allows overindulgence. Happy-go-lucky.
- ☉ ☐ ♀ An extremely powerful aspect: enormous ambition and the architectural planning to build the tower of success. Experience teaches and guides the energies. An intense self-awareness. Independence is seen even in early life. Parental

influence. Developmental drive of the highest order.

- ☉ □ ♃ Temper. Rebellious, headstrong. "Hair-trigger personality" (Lewi). Individualism. Ardor.
- ☉ □ ♃ Unrealistic. Daydreaming. Gullibility.
- ☉ □ ♁ Disappointments. Affairs overturned. Past mistakes catch up with the Self.
- ☉ △ ♀ Common sense. Flexibility, curiosity.
- ☉ △ ♀ Gracious, attractive. Comfortable surroundings, happiness.
- ☉ △ ♂ Vigor, spirited, reasonable control.
- ☉ △ ♃ Character, idealism, honor, luck, financial assistance from family and others.
- ☉ △ ♃ Convention, sobriety, seriousness. "Relaxation and contentment are the two worst enemies" (Lewi).
- ☉ △ ♃ Sees all sides of any question but lacks choice and action. Innovative, entertaining, fortunate.
- ☉ △ ♃ Gracefulness, intuition. Beauty in all forms has a strong effect upon the Self. Peace and quiet. Sharp perceptions. Subjective comfort.
- ☉ △ ♁ Awareness of public issues. Self-perspective clear. Careful about making sure progress. Creative caution.
- ☉ ♂ ♀ Intelligence loses practical contact with Self orientation. Wit gets ahead of action.

- ☾ ♂ ♀ Emotions and popularity can need reassurance. Aloneness avoids risk of exposure. Aesthetic awareness.
- ☾ ♂ ♂ Energy chomping at the bit.
- ☾ ♂ ♃ Philosophies tested. The status quo can be disrupted and find itself unprepared, momentarily unresourceful.
- ☾ ♂ ♃ Drive, ambition, severity of purpose. Worry, anxiety, delays. Frustration. Conversion of liabilities to assets.
- ☾ ♂ ♃ Disruption of the status quo. Innovation rampant. Independence upsets security and romance.
- ☾ ♂ ♃ Deception from others or through the Self's own fantasy.
- ☾ ♂ ♃ Things don't work out the way they should. Separation between Self's position and the public course.

Note: 85% of all United States presidents (through Nixon) had the Moon or Sun related by conjunction, square, or opposition with Saturn and/or Mars. Of this 85%, 55% related the Moon to Saturn and/or Mars; 45% related the Sun to Saturn and/or Mars. The 15% who had no relationships between the lights and these two powerful planets were Thomas Jefferson, John Quincy Adams, James K. Polk, R.B. Hayes, Chester Alan Arthur, and Benjamin Harrison.

*Mercury*

- ♃ ♂ ♀ Idealism, especially when the aspect is exact. Affections are tied to mental evaluations. Personal contacts gain a keen edge.
- ♃ ♂ ♂ Quick, bright mind. Mathematical, precise, inquisitive. Loves a good argument.
- ♃ ♂ ♃ Direct, open, honorable mental attitude. Optimism. In Fixed Signs: stubbornness.
- ♃ ♂ ♎ Profound mental attitude: from the melancholy to the wise. The speech shows confidence and authority.
- ♃ ♂ ♁ Sharp, brilliant, swift mind. Speed and acuity incline to mechanical understanding. Innovative with words and concepts. Nervous source for all thoughts.
- ♃ ♂ ♊ Sensitivity, flexibility, and impressionability are taken on by the mental process. The senses are very refined. Aesthetics. Photography.
- ♃ ♂ ♀ Absorbed in the hidden, the occult, the underworld, the underground. Fascination with the upheaval possible within the world through careful, private mental discoveries and planning. Tendency to an awareness of individual futility. Morbidity.
- ♃ □ ♂ Nervous suspicion. Words and awareness cut to the heart of any matter quickly. Detection.

- ♀ □ ♃ Creates fish stories, spins yarns. Exaggeration hinders judgment. "Sticking to your guns though your ammunition is gone" (Lewi).
- ♀ □ ♃ Depression, melancholy. Sensitivity to shallowness and the superficial creates feelings of frustration along the path to personal wisdom. Rationalization of circumstances justifies the means that may continue to frustrate. Subtlety is appreciated. Mental cruelty is possible.
- ♀ □ ♃ High nervous tension. Energies are wasted in temperament. A chip on the shoulder.
- ♀ □ ♃ Daydreamer. Difficulty concentrating. Easily distracted.
- ♀ □ ♃ A dangerous aspect: personal futility is keenly felt. The Self is lost in perspective.
- ♂ ✕ ♀ Idealism and artistic sensitivity.
- ♂ △ ♂ Quick mind, facility. Possible waste of these easy energies.
- ♂ △ ♃ Fine education, trained intelligence. Tendency to inflate concepts can lose sight of practical significances. Feet are not always on the ground.
- ♂ △ ♃ Balanced mind. Wisdom. A very strong and positive aspect.
- ♂ △ ♃ Quick, broad-minded; a leader in thought.
- ♂ △ ♃ Intuition and inspiration. The abstract viewpoint. Knowledge delights for its own sake.

- ♀ Δ ♁ Respect for the mysteries and world-life situation adds caution to mental experimentation.
- ♀ ♂ ♂ Nervous anxiety. Incisiveness needs appreciation and practical resolution.
- ♀ ♂ ♃ Exaggeration needs adjustment through objectivity.
- ♀ ♂ ♄ Moodiness and introspection can create deep mental awareness and wisdom.
- ♀ ♂ ♅ Nerves. Knows so much but cannot make headway. Support needed.
- ♀ ♂ ♆ Confusion. Great difficulty in concentration. Mental powers are harnessed and led away from the rest of the life unless related to the whole by supportive aspects.
- ♀ ♂ ♁ The mind wanders far away to avoid seeing the Self's position. Perspective can be dangerously out of focus, out of reach. When invigorated by another aspect, perspective is vitalized, keen and persuasive perceptions.

### *Venus*

- ♀ ♂ ♂ Extreme attraction to and for the opposite sex. Luck and charisma.
- ♀ ♂ ♃ Excellent good fortune. Idealism. Unassuming gentleness. Vulnerability through emotional and ethical naïveté.
- ♀ ♂ ♄ Complex emotional nature. Romantic liaisons with those of conspicuously older or younger

age. Sensitivity hurt often. Loyalty given when emotional needs are understood. Extreme care with personal resources. Confinement can be misinterpreted as security.

♀ ♂ ♁ Highly unusual emotional nature: explosive yet conventional. A nervous release and a nervous retention. Humanism unlocks the emotions; independence and unique standards hold them back.

♀ ♂ ♃ The artist. The ultraromantic. Other-world charm. The fascination of the translucent. The unusual and the intuitive, the sensual and the explorative appeal.

♀ ♂ ♄ Emotional projection to the masses or emotional downfall through emotional excesses.

♀ □ ♂ The emotions and passions are given tension. Sex and love can present problems. Misdirected affections. Pleasures seek extravagance.

♀ □ ♃ Expansive emotional nature. Extravagance financially. Blind love.

♀ □ ♁ Quite similar to Venus conjunct Saturn. But complications arise through confinement and control of the emotions. Problems with inheritance. Fluctuation between saving and over-spending.

♀ □ ♁ Unconventional emotional power: sex, feelings. Independence. Impulse and temperament are emotionally based and need stabilization.

♀ □ ♃ Abstract idealism and aesthetic rationalization

encourage unconventional emotional power. Fascination with the unreliable, unusual, the emotionally adventurous.

- ♀ □ ♁ Prostitution of the emotions. Personal excess and projection to a group to gain self-significance.
- ♀ △ ♂ Strong, magnetic personality. Sex appeal and easy emotional flow. Material profit through loved ones. Materialism provides comforts for the self-esteem.
- ♀ △ ♃ Luck, fortune. Gentleness and sensitivity. Placid and harmonious unless stronger aspects are also involved.
- ♀ △ ♋ Emotional nature gains steadiness. Hereditary security. Self-control is easy and natural.
- ♀ △ ♌ Magnetic, charming. Broad viewpoint projects emotional energies to the group and acquires unusual friends. Luck.
- ♀ △ ♍ Impressionability brings an artistic finesse to emotions. Idealism and perfectionism are deep instincts. The unusual, the underdog appeal.
- ♀ △ ♎ Emotional viewpoint is broadest. Understanding is deep and rejuvenating. Motivation is toward the larger group.
- ♀ ♂ ♂ Tension, indecision, and problems with the emotions. Vacillation. Standards fluctuate.



- ♀ ♂ ♃ Vacillation between ideal conservatism and rationalized expansiveness. Waste of emotions and resources.
- ♀ ♂ ♃ The ambition of others controls personal emotional expression. Forced to age emotionally beyond one's years. Security is paramount.
- ♀ ♂ ♃ Nervous tension over the unusual, the innovative, with regard to emotions, sex, and friendships. Temperamental.
- ♀ ♂ ♃ The personal emotions are subdued and drowned within fantasy and aesthetic idealism. The private imagination mirrors the emotional comfort.
- ♀ ♂ ♃ Lost emotional perspective.

### *Mars*

- ♂ ♂ ♃ Energy, flair, enthusiasm, creativity, joie de vivre.
- ♂ ♂ ♃ A particularly difficult aspect: a focus of drive and ambition, of vitality and strategy. A great focus upon leadership and executiveness. —With other aspects that break up this blend: overaccommodation and weakness are possible. The power needs modification and structuring from the rest of the horoscope. Generally, the conservatism of Saturn overcomes the energetic thrust of Mars...and the Self does not like the outcome!

- ♂ ☿ ♃ Mental brightness. Ingenuity. Emotions are inaccurate. The flame seeks application. Temperament is a threat in any situation. Nervous impulse.
- ♂ ☿ ♃ The most powerful magnetic aspect in any horoscope: the energies of Mars are given an intuitive, aesthetic delivery. "Something of the magician hovers about you" (Lewi). Doors open. Selfishness becomes an energizing virtue!
- ♂ ☿ ♄ Underworld energy. The detective. Subtle control over others.
- ♂ ☐ ♃ Taking chances. Expansive, confident energies require moderation. Being ahead of the times is not always comfortable or productive. Difficulty through extravagances.
- ♂ ☐ ♃ The aspect of bad judgment. Energetic drive and conservative caution clash. Passions will cause trouble. An inferiority complex may emerge out of accumulated difficulties. If Mars gains the upper hand, progress is carved out in life, and the bridges are burned. Nervous rebellion against authority.
- ♂ ☐ ♃ Temper. Individual headstrong drive breaks social restraints. Independence ignores solid foundations.
- ♂ ☐ ♃ Spiritual insight and the energy to use it. Consciousness and application of two worlds at the

same time: forceful energy and intuitive rightness. Within aspect relationships elsewhere in the horoscope that are vague and unfocused, self-delusion is possible.

♂ □ ♃ Disruptive, escapist, rebellious breakaway from social norms.

♂ Δ ♃ Wealth. Luck in gambles.

♂ Δ ♄ Strategy. Building carefully from solid foundations. Boldness complements caution.

♂ Δ ♅ Invention, mechanical orientation. Speed, courage.

♂ Δ ♆ Personal magnetism. Spiritual or mental power. Aesthetic and artistic energies strengthened.

♂ Δ ♁ Energy identifies itself with group norms. Depth of significance complements foundation of energy and ambition.

♂ ♃ ♃ Without preparation and planning ahead of time, idiosyncratic ways are disruptive.

♂ ♃ ♄ Disruption: energies and caution are at odds.

♂ ♃ ♅ Temperamental frustration.

♂ ♃ ♆ Deceptiveness. The untrue is easy rationale and foil.

♂ ♃ ♁ Energies cannot tune in with proper application.

Note: The mutual aspects between the slower-moving bodies occur infrequently and, when in operation,

influence many births over long periods of time. These aspects are *background* aspects to the behavior indicated by aspects between and with the faster-moving planets.

### *Jupiter*

- ♃ ◊ ♃ Convention and legal ethics in focus. Law and order.
- ♃ ◊ ♁ Material luck; success in large enterprises. Philosophy and social awareness.
- ♃ ◊ ♃ Idealistic and expansive in ideas and fluid assets. Gains from unusual sources.
- ♃ ◊ ♁ Grand awareness of the masses and the human code. Spiritual rejuvenation.
- ♃ ◻ ♃ Enthusiasms are held back. Difficulty seeing the potential of rise, progress, and self-improvement. To lift the goal will be to lift ambition into action.
- ♃ ◻ ♁ Expansive and innovative. Large structures appeal to the imagination and seek the energy to realize them. It is the arc of inspiration that appeals and pays off, not the unrealistic gamble.
- ♃ ◻ ♃ Vision in philosophy and religion. A stratum of mysticism underlies the thinking. Skepticism is not reality. Reality is where the feet too rarely are with this aspect.
- ♃ ◻ ♁ Philosophical, religious, and speculative tension with the ways and opinions of the world.

- ♃ Δ ♃ "You always seem to get what you need. When everyone else is broke you can fish a dollar out of some place....someone or something will come to your rescue" (Lewi).
- ♃ Δ ♃ Stability and good luck.
- ♃ Δ ♃ Spiritual insight, magnetism. Hunches guide action.
- ♃ Δ ♃ Improves self-projection within the collectivity.
- ♃ ♂ ♃ Personal enthusiasms seem to go against social norms. The frustration becomes not just a lowering of the aim of ambition but a wandering of the energies of fulfillment.
- ♃ ♂ ♃ Wishes lose reference to reality.
- ♃ ♂ ♃ Skepticism protects the private vision and apathy.
- ♃ ♂ ♃ Enthusiasms appear distant from public application.

*Saturn*

- ♃ ♂ ♃ A strong horoscope gains magnetism and a weak one takes on confusion. There is a tension between the conservative and the innovative, the conventional and the unusual, the real the the visionary.
- ♃ ♂ ♃ There is a peculiar hold over people. The ambition is focused through deepest intuition. The spirit supports material gain.
- ♃ ♂ ♃ The ambition is to rebel and recondition society.

The means are more important and more clear than the goal.

- ♃ □ ♃ Independence needs tact.
- ♃ □ ♃ “Ambition has a way of going to sleep on you” (Lewi). The introversion of Neptune absorbs the ambition of Saturn internally. The Self has esteem, but the need to externalize is weakened. The goal of effort is elusive.
- ♃ □ ♃ Revolutionary spirit.
- ♃ △ ♃ The ambition takes on unique, unusual dimensions that can be aesthetic, inventive, or administrative.
- ♃ △ ♃ Very similar to Saturn trine Uranus. The creative is emphasized.
- ♃ △ ♃ Ambition works well within the public concern.
- ♃ ♀ ♃ Independence loses touch with ambition’s strategy.
- ♃ ♀ ♃ The material ambition leads one way and the intuitive strengths lead another.
- ♃ ♀ ♃ Ambition antagonizes.

### *Uranus*

- ♃ ♂ ♃ 1990 through 1995: tremendous spiritual and occult focus within the world and within each individual.

- H** □ **♃** The younger generation in any society. Disruptive individualism finds spiritual rationalization. The pioneer spirit prevails for five to seven years and then fades, whether change is accomplished or not.
- H** □ **♁** 1931 through 1935: individualism is given spiritual rationale for reform. This description applies to the conjunction as well (1964 to 1968).

These capsule descriptions of aspects are *keys* only. The planets studied within their respective Signs qualify the keys further. They will begin to unlock awareness of energies within individuality. Seeing aspects in patterns and groups *within the Houses* relates energy to behavior. *Knowledge of Astrology becomes knowledge of behavior.* The astrologer expands the patterns of energy within his era through the Will and level of development of his client.





## 19

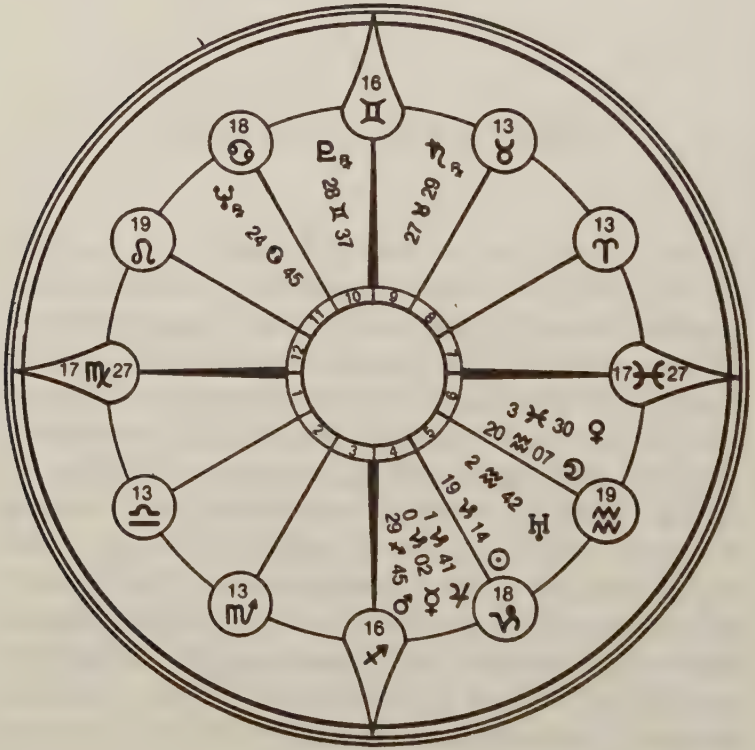
# Aspects in Analysis

In early study, the multitude of aspects and meanings seems bewildering. But with experience with horoscopes and the patterns that form within them, a major dimension evolves that practically accomplishes synthesis organization *for* the astrologer: this is the *dimension of naturalness*. Very, very few people are made up of extremes of behavior, extremes of emotion, inspiration, ambition, suffering, etc. *The norm is a naturalness that develops within the Order, within the person, within the identity*. Subtle divergence from the norm creates degrees of individuality, but *the naturalness of all the facets of a person's behavior within his own individuality preserves life, individuality, and identity*. Nature and man strive for their own equilibrium. *The astrologer synthesizes within the balance he learns to expect*.

As a therapist, the astrologer learns to improve the balance or correct momentary imbalance *by sharing with the client insight of the natural whole*. The astrologer must adjust meanings of aspects and patterns to male and female, executive and artist, child and adult, aggressive

Richard M. Nixon

January 9, 1913; 9:44 PM, PST; Yorba Linda, CA  
118 W — 33 N



and reticent cases. The technique of synthesis is learned through study of behavior and experience with horoscopes. This chapter introduces the actual practice of Astrology, which will be intensely developed in following volumes.

*Analysis: Richard M. Nixon*

The Sun is in Capricorn and the Moon is in Aquarius: the ambition seeks administration through humanitarian or social channels. There will be a security of purpose and an innovative drive to success. (See horoscope on page 160.)

The Sun in House V would suggest creativity, speculation, and *public goals* (eleventh of VII). —This is a major deduction on the part of the astrologer. The Moon in Aquarius immediately has keyed humanitarian and social channels for the expression of the Capricorn ambition and administration. In that same moment, we know that the presentation to and work within the public will be very significant to the native. This deduction alerts us to House VII, the House of the public. The Sun in House V has an eleventh House relationship with House VII (Volume II). The House XI meaning is hopes and wishes, goals, friends, love received. —In this first deduction, the core of personality energy begins to form naturally.

The Moon is in VI, the House of work and service. House VI is the twelfth of VII: the large institutions of the public, its accumulated experience and spiritual structure. House VI is the natural House of Virgo...and Virgo is on the native's Ascendant. The personality is hard working,

detailed in execution, idealistic intellectually, perhaps a little reticent and unassuming within service.

Mercury, the ruler of Virgo, is in House IV in Capricorn, the same Sign that holds the Sun: the perceptions are extremely keen. The native can hear the grass grow, never misses a trick. Mercury is in a triple conjunction with Jupiter in Capricorn and Mars in the last degree of Sagittarius (a conjunction still, since only  $\frac{1}{2}^{\circ}$  separates them). The qualities of Mercury in Capricorn are energized by Mars in Sagittarius: ethical, philosophical, legal thrust; and expanded by Jupiter, ruler of Sagittarius, also in Capricorn: the intellect has broad, sweeping philanthropic applications. —House IV can be read as the homeland, patriotism. House IV is the tenth of VII: the professional honor position of the public. As president, the native has the public trust.

*The Moon and Saturn* are both in *Fixed Signs*: they are in *square*. The Moon is at  $20^{\circ}+$  in Aquarius and Saturn is at  $27^{\circ}+$  in Taurus. If you were to count every degree around the circumference of the circle, counter-clockwise, you would accumulate  $97^{\circ}$ , seven degrees past a perfect  $90^{\circ}$  square. *But counting is absolutely unnecessary*. For any aspect: *simply note the element and mode of the Sign, determine the aspect relationship* (trines between Signs of the same Element Family; oppositions or squares between Signs of the same mode) *and compare the number of degrees in the position of each planet*. The orb of reference for the Moon or Sun is  $14^{\circ}$  (page 28). This square between the Moon and Saturn, seen immediately between two Fixed Signs, is well within the orb.

This powerful aspect supplies ambitious, fixed drive and enormous self-confidence to the native. This is even more emphasized by the fact that Saturn is the ruler of the Sun-Sign Capricorn. The ambition is structured (Saturn in Taurus) powerfully and serves the projection of humanitarianism, work and service. Saturn in House IX would introduce considerations of international affairs, law, philosophy, extended travel, and sports. The House IX placement could suggest that the native's ambition communicates the concerns of the public, as IX is the third of VII. —Additionally, the foreign affairs ambition seen through Saturn in IX reinforces the homeland and intelligence emphasis seen through Jupiter in House IV, since Jupiter is natural ruler of IX (the natural position of Sagittarius).

Taurus is on the cusp of House IX. Its ruler, Venus, is in House VI in Pisces. The native's emotional response with reference to his work, colleagues, and service (VI) is a good deal deeper than he is able to get across to loved ones...and to the public (Venus in Pisces, Pisces on VII; Venus exalted in Pisces). In difficult work situations, the native may adopt a martyrlike position to communicate his sincerity. Venus also rules Libra on II, and finances might be involved in the emotional situations within work. —Venus is actually square to Saturn *across the Sign line*: the perfect square would be from 27° Aquarius. Venus is 6° past that position, just within the 7° orb allowed for the planets. —This more detailed reading of aspects will be explained and practiced in Volume IV.

The square between Venus and Saturn reinforces emotional reserve and repression.

Venus makes a very clear sextile with Mercury and Jupiter. Venus is two Signs away from Mercury and Jupiter in Capricorn. The perfect sextile ( $60^\circ$ , two Signs) would be  $0^\circ$  and  $1^\circ$  Pisces. Venus is  $2^\circ$  beyond, still within orb, and qualifies in sextile. Similarly, there is a sextile to Mars, across the Sign line, with a  $4^\circ$  orb. —The sextile here gives support to the patriotic, expansive intellectual posture and facilitates its emotional flow within the work situation (Venus in House VI).

Uranus rules Aquarius, the Sign that holds the Moon. The native's individuality would definitely seek unusual outlet in inventive humanitarian expression. Uranus is almost exactly midway (semisextile)—one Sign—between the Mars-Mercury-Jupiter conjunction and Venus, creating a further, natural harmony between the patriotism and work orientations.

Uranus is  $5^\circ$  from a trine with Saturn. Saturn would have to progress  $5^\circ$  farther, across the Sign line into Gemini to  $2^\circ$  Gemini. The orb allows the aspect, and the trine is valid. Unique, unusual dimensions support the native's ambition, surely intellectual and administrative. Nixon has been called the man of the era.

The Gemini Mid-Heaven immediately suggests more than one occupation. Law is corroborated as one of them through the triple conjunction in House IV: the *Sagittarian* Mars and *Jupiter* influencing the application of the mind, Mercury. Also: ambition (Saturn) placed in House IX.

Pluto opposes the Mars-Mercury-Jupiter group from House X, personal honor and reputation. The mind can wander, taking perspective off the Self, keeping the Self

out of reach. Enthusiasms and energies can appear distant from application.

*This opposition with Pluto is the first divergence from the normal, natural, expected arrangement of humanitarian affairs begun with the Sun-Moon relationship. Here will begin understanding of the challenges within the identity, the quirks of the behavior...perhaps the cross to bear for growth. Somehow, the native is aloof: projected to the masses in a lofty, intellectual—political—way (Pluto in X in Gemini), yet “removed” personally, losing clear perspective as the focus tightens upon the individual.*

Pluto rules House III, communications and humor... and close family. Gemini holds Pluto and is the natural Sign of House III. The withdrawal symptoms, the alteration of perspective would be seen in personal communications. Perhaps some strangeness with the ethics and communication laws of the people (House III is the ninth of VII). —Pluto receives a trine (two Air Signs) from the Moon (8° orb). This would mitigate the danger somewhat through a grand view of public issues and an improvement of the *personal* (Moon) perspective. But the danger is still there since Pluto and its opposition with the House IV group are the *only planets that occupy angles* in the horoscope. There are no planets in the Ascendant or House VII. A position in an angle gives extra strength to planets and any portion of analysis that applies. This opposition falls most closely between Pluto and Mars in the Mutable Sign relationship (Gemini and Sagittarius). The Mutable Signs are reactant. In angles, reactions can gain strength

and run away with the control plan of action. —Additionally, the Gemini Mid-Heaven would suggest writing ability and outlet. Did Nixon focus his career perspective through his book *Six Crises*, written in 1962, two years after he lost the election to John F. Kennedy?

Finally, we see that Neptune is in opposition with the Sun (opposite Cardinal Signs,  $5^{\circ}$  orb). This is crucial. The fantasy life brings self-deception or deception that is accomplished by others. Neptune in House XI would introduce consideration of the native's friends and aides...and also suggest public speculation (House XI is the fifth of VII). This is reinforced by Neptune's rulership of Pisces on VII, the House of the public. Neptune is in Cancer, ruled by the Moon which is in VI: the deception would occur within the work situation and affect the personality's form crucially. —The Sun rules Leo which is on House XII, personal limitations: the debilitation of the Sun here in V could amount to a considerable liability.

Neptune receives a supportive sextile from Saturn ( $3^{\circ}$  orb). This helps ambition and its inspiration, and it may link the work of deceptive friends or self-deception to the humanitarian service pattern.

This short general analysis of President Nixon's horoscope follows the guidelines set down in our study so far. There is much more detail, many more dimensions which will be introduced in Volume IV. But this general description is what Nixon has as birth endowment, to be achieved at whatever level his upbringing, environment, and society encourage...at whatever level his Will



determines. The analysis could apply to a lawyer, to an administrator of any public concern. The specific fact that Nixon *is* president is *not* to be seen in the horoscope.

As we advance in our studies of astrological principles and practice, many more nuances will emerge through the *timing* of aspects as they develop and change *after* birth, seen in relation to the endowment of the birth horoscope. Then, the entire synthesis permits the understanding of the past and the projection of the future.

In Nixon's birth horoscope, the aspects order themselves into a large *natural* group and a special, potentially *problematic* group. This is illustrated on page 168.

The *multiplicity of aspect potentials is naturally diminished* by the very *definition of identity* and the *work of nature* within this definition: sameness of essential character; a sameness in all that constitutes the objective reality of a thing; self-sameness; oneness; unity and persistence of personality.

The identity *is* because it must be. The natural order is seen within the individual order. The system of the Heavens takes its place within man. Man in his behavior within his environment expresses the Order at levels determined by his Will and station in life. The astrologer seeks out the Order and makes disciplined deductions in terms of behavior and experience.

Man is in accord with his Order. Everything that takes place in his life is born of an immutable law proclaimed from all eternity.

Natural  
Humanitarian Service Group

- Core ☉ ♁ · ☽ ♁ (V-VI)
- Mind Asc. ♁
- Energy ☽ ♁ ♁ IV
- Ambition ☽ ☐ ♁ ♁
- Emotions ♁ ♁ ♁ ♁ \* ☽ ♁ ♁ ♁ ♁ ♁
- Individuality ♁ ♁ ♁ ♁ ♁ ♁
- Profession ♁ X

Problematic  
Self-Communication Group



To the ancients, the divinity of the planets appeared to be proved in observation and experience so vividly that to fail to see it was to be incapable of seeing anything.—In our modern time, the astrologer Robert de Luce observed the same axiom eloquently:

*The planets are the outward visible manifestations of God's power, intelligence, wisdom, and love.*



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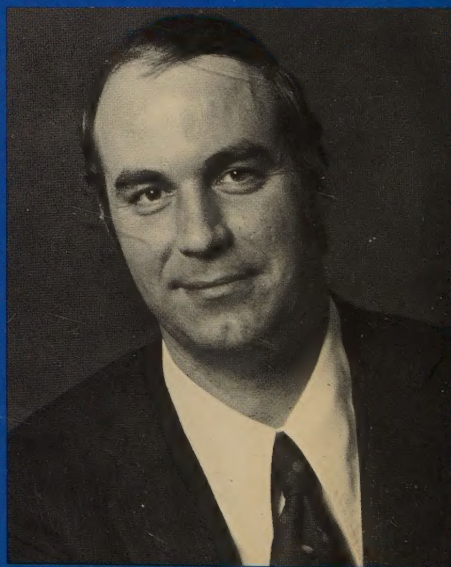
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