

Tardemah: The Biblical Key to Spirituality

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Abstract

If you think that religion and mathematics have nothing to do with each other... think again! “*From the dawn of history, sages have intertwined numbers with magic to create the Gods, demons, and the world views needed by the rest of us to make existence seem comprehensible*” (Cole, 1987). The Kabbalistic numerology of Jewish mysticism is said to reveal the deep, hidden meaning of Scripture, known in Hebrew as *Razah D’Oraytah* (“Secret of Knowledge,” “Secret of the Torah,” or “Secret of the 22 Foundation Letters”). The author is convinced that this great Kabbalistic secret has been hidden in plain sight within the *Sefer Yetzirah* (Book of Creation), the only text attributed to the prophet Abraham by many within the Ultra-Orthodox and Chasidic rabbinical community. Two noted Jewish scholars, Leo Baeck (1873-1956) and Gershom Scholem (1897-1982), were both convinced that this allegedly Abrahamic text could only be understood in terms of the ancient Greek “Pythagorean” mathematical tradition better known as the *Music of the Spheres*. Unfortunately, neither of these two Jewish scholars was sufficiently schooled in the Pythagorean mathematics necessary to decipher this “Secret of Knowledge.”

The “Pythagoreans” are known to have integrated mathematics and music as universal disciplines that define the fundamental nature of reality, existence, and being. The *Music of the Spheres* sought to explain the macrocosm of the cosmos as a reflection of the microcosm of man's soul. During the Middle Ages and the Renaissance, the *Music of the Spheres* evolved into an educational system known as the *Seven Liberal Arts*. These seven disciplines include the *Quadrivium's* four mathematical disciplines: arithmetic, music, geometry, and astronomy, and the *Trivium's* three language disciplines: rhetoric, dialectic, and discourse. Learning the *Quadrivium* required a student to master each of the four mathematical disciplines separately and then integrate them into a holistic view of reality that unlocked the metaphysical foundation of both religion and philosophy. In summary, the *Quadrivium* integrates arithmetic, harmonics, geometry, and astronomy into a mathematical framework that describes both the source and diversity of creation. A “classically trained” polymath would also have mastered the *Trivium's* three language disciplines to communicate the *Quadrivium's* complexities to others. Unfortunately, this Kabbalistic *Secret of Knowledge* was lost in 586 BCE when the Babylonian King, Nebuchadnezzar, kidnapped and murdered the last High Priest of Solomon's Temple who knew this great secret. Deciphering Abraham's Book of Creation reveals the heart of his teachings as “231 Gates of Wisdom,” a mathematical table that seamlessly integrated the four disciplines of the *Quadrivium* (see Figure 12). If this mathematics had never been lost, there would likely have been many more polymaths benefiting from these Abrahamic/Pythagorean teachings than Galileo, Da Vinci, and Isaac Newton. Integrating the *Quadrivium's* disciplines provides the underlying mathematical model that shapes and structures the metaphysics of history's great religious and philosophical texts. Unlike the *Seven Liberal Arts*, our modern educational system educates subject-matter experts capable of earning a living wage, but from the perspective of a “classical education,” these students would be considered narrow-minded.

The great rabbi, philosopher, and physician, Maimonides (1135 - 1205 CE), was the most famous Jewish scholar to admit that he did **not** understand how to apply the so-called “Pythagorean” *Music of the Spheres* to Judaism's *Secrets of the Law*. While working toward a Bachelor of Science degree in Music Composition during the 1970's, the author wrote a paper about the Early Middle Ages scholar and polymath, Boethius. Boethius was responsible for teaching the early church fathers about Pythagoras, Aristotle, and Plato. In response to my paper, the Music Department created a graduate honors seminar that would enable me to study independently with the school's most noted “Pythagorean,” Dr. Ernest McClain. McClain's work focused on establishing the *Music of the Spheres* as the underlying mathematical framework that shaped the metaphysics of Plato's Dialogues. However, McClain also speculated that “Pythagoreanism” provided the underlying mathematical framework for many other ancient “wisdom texts,” including the Rig Veda, Hinduism's oldest religious text, the Egyptian Book of the Dead, and even the Hebrew Bible. Raised in the Conservative Jewish tradition, the author was intrigued by the universality of Dr. McClain's speculation and wondered whether it could be confirmed by the Hebrew Bible

itself. The author then spent more than a year auditing courses at a Chasidic Yeshiva, studying the Torah, the Talmud, and an 18th-century Kabbalistic text, *Likutei Amarim Tanya*, written by Schneer Zalman of Liadi, the founder of the Lubavitch Chasidic sect. The *Tanya* describes the *Sefer Yetzirah* (Book of Creation) as the only text attributed to the prophet Abraham. After many years spent deciphering the Book of Creation's mathematical riddles, the author is confident that he has been able to successfully apply the "Pythagorean" *Music of the Spheres* to Judaism's *Secrets of the Law*. This article will demonstrate how the Book of Creation provides the underlying mathematical framework for modeling Biblical allegory and symbolism.

Keywords: Tardemah, 231 Gates, Secret of Knowledge, Ishango Bone, Nephilim, Göbekli Tepe, Quadrivium, Trivium, Caduceus

1. Introduction

Validating the Book of Creation's mathematics against Biblical allegory demonstrates how Abraham's teachings describe God and Creation in terms of three layers of meaning:

- 1) text (allegory, metaphor, symbolism)
- 2) number (arithmetic, harmonic, & geometric progressions, prime numbers, Base 60, etc.)
- 3) sound (pairing integer ratios to acoustically generate musical sounds)

Many scholars argue that the Book of Creation could not be authentically Abrahamic because the extant version of this "Abrahamic" text was written in Biblical Hebrew. Philologists argue that the Book of Creation was written in Biblical Hebrew, a Semitic script that dates back only to 400 BCE, rather than to the Old Babylonian Period (ca. 1800 BCE) associated with Abraham's Biblical timeline. Historically, however, there are several possible 22-consonant Semitic Abjad alphabetic scripts that date further back in time. Each of their 22 consonants is assigned a numeric value, so reciting one of the Semitic Abjad alphabets resembles counting. If one were to add up the numerals that correspond to the consonants of a given word, then each word would acquire a specific numeric value as per the rules of *gematria*. It is important to understand that any given word would acquire the same numeric value no matter which of the historical Semitic scripts was in use, including Biblical Hebrew, which dates back to about 400 BCE, Aramaic (ca. 700 BCE), paleo-Hebrew (ca. 1000 BCE), Phoenician (ca. 1200 BCE), proto-Canaanite (ca. 1550 BCE), and proto-Sinaitic (ca. 1850 BCE). Proto-Sinaitic would have been in use during the Old Babylonian period, when Abraham is said to have lived. If archaeologists ever recover an earlier version of the Book of Creation, the script in which it is written would reveal the same underlying mathematical and theological content as the extant Book of Creation's Biblical Hebrew (Schatz, 2024). The spoken language might well have resembled modern-day, or even Biblical Hebrew, but the shapes of alphabetic characters in each Semitic 22-consonant Abjad script are known to have evolved over the centuries. The translation of text to numbers would remain essentially unchanged, no matter which alphabetic script was being translated.

Exodus 24:12 states that God gave Moses the Law on Mount Sinai, but by revealing Abraham's *Secret of Knowledge*, the reader will come to realize that the "Oral Law" God taught Moses on Mount Sinai is defined by Old Babylonian mathematics passed down in an oral tradition from the time of Abraham (ca. 1800 BCE) to the time of Moses (1350 BCE). One must consider the likelihood that Biblical stories and symbols describing God and Creation were much easier to conceptualize than the exact sciences of antiquity. Using language and symbols to approximate Abraham's mathematical concepts was certainly more accessible than mathematics itself. This formula is suggested by Proverbs 1, in which Solomon warns the reader not to take creation stories too literally, but rather, to search for Biblical wisdom within the text's many allegories and riddles. Abraham's *Secret of Knowledge* is encrypted in the text's "231 Gates of Wisdom" as a Cartesian-like, multidimensional mathematical table that documents Old Babylonian knowledge of ancient number theory and acoustics as the inner vibrational essence and substance of God and Creation. A subset of the "231 Gates" also encrypts detailed instructions describing how all those among "Abram and his seed," i.e., the "children of Abraham," would inherit Abraham's teachings and learn to transform themselves into "Anointed Ones" or Messiahs (Greek: *Christos*; Hebrew: *Moshiach*). Thus, the key to Biblical spirituality appears to lie in mastering Abraham's sacred *Tardemah* ("trance") meditation practice, which simulates death, as the only way to enter the "Promised Land" of Zion (a Biblical name for Jerusalem, the "Kingdom of God"). The word *Tardemah* ("deep sleep" or "trance") occurs only 7 times in the Hebrew Bible, and each occurrence reveals new insights into Abraham's teachings as the Biblical key to spirituality. Deciphering the "231 Gates" table reveals the original conceptualization of God and Creation, as well as instructions for purifying one's body and liberating one's soul by mastering *Tardemah*. Presumably, after many years spent in this pursuit, one learns to free one's captive soul from its exile in the material realm, as well as how to liberate one's soul into the spiritual realm of Zion. It must be stated that the "Promised Land" is not a geographical location, but rather a spiritual one.

The word *Tardemah* translates to either *deep sleep* or *trance*. When all 7 facets of this Biblical jewel are revealed, the world should once again understand the "true religion of Abraham" that existed before the holy books of

Judaism, Christianity, and Islam were written. Today's lingua franca, modern science, has provided critical insight into the various states of *Tardemah* consciousness that lie between waking and sleeping. Extensive scientific studies help us understand and compare *Tardemah*'s "deep sleep" to the "trance" state. The various states of consciousness include waking and the N1, N2, N3, and REM stages of sleep (StatPearls, 2025).

1. Waking - is characterized by beta waves, which have the highest frequency and lowest amplitude. As people get drowsy, alpha waves increase.
2. N1 to N3 indicates non-rapid eye movement.
 - a. N1 (5%) indicates light sleep, when 50% of a person's alpha waves are replaced with low-amplitude mixed-frequency, especially theta waves.
 - b. N2 (45%) indicates deeper sleep, characterized by sleep spindles and K complexes, which are associated with a drop in heart rate and body temperature.
 - c. N3 (25%) indicates the deepest sleep, characterized by delta waves, which have the lowest frequency and highest amplitude.
3. REM (25%) indicates rapid-eye movement characterized by beta waves typical of waking. This stage is associated with dreaming and lucid dreaming, including Biblical visions of "walking" and "talking" with God, as well as nighttime premonitions and prophecies that might anticipate death or destruction.

Tardemah's "deep sleep" state corresponds to the N3 sleep stage, while the "trance" state occurs upon entering the REM stage. EEG patterns during this hypnagogic state resemble those of REM sleep, indicating similar activity. Hypnagogia is the gateway to REM, during which the brain begins to exhibit REM-like features before fully entering REM, creating a blend of waking and dreaming consciousness. Learning to remain in the hypnagogic state for long periods appears to be the key to what is often referred to as opening the "third eye," man's window into the spiritual realm. Numerous studies of Tibetan monks and Hindu Lamas who practice *Tummo* (Inner Fire) or *Dzogchen* lucid dreaming seek to realize *rigpa* (pristine awareness), two Eastern methodologies that are comparable, if not identical, to *Tardemah*'s trance state (Schatz, 2022).

This article explains how the Hebrew Bible's seven occurrences of the word *Tardemah* define the Bible's primary message. Since few, if any, scholars or religious clerics are familiar with the complexities of Abraham's mathematical teachings, those teachings reveal that each new occurrence of the word *Tardemah* is accompanied by increasingly complex mathematical insights. In Genesis 2:4-6, the first occurrence of God's holiest Hebrew name, יהוה (transliteration: *YHVH*, *Yahweh*, or *Jehovah*), lays the mathematical foundation that supports the first occurrence of *Tardemah* in Genesis 2:21. By the time the reader encounters the 7th occurrence of the word *Tardemah*, they should have a complete picture of how Abraham's teachings explain the Biblical mysteries of God and Creation, while simultaneously forging a peaceful common ground among all "children of Abraham." This article will also attempt to demonstrate how the entirety of Abrahamic mathematics was encrypted by Moses within the three holiest names of God: אלוהים (*Elohim*) in Genesis 1, יהוה (*Yahweh*) in Genesis 2, and אהיה (*Ehyeh*) in Exodus 3.

The author's lifetime of research has been devoted to deciphering the Book of Creation and authenticating its mathematics against the Hebrew Bible (Schatz, 2024), as well as against key Old Babylonian cuneiform tablets (Schatz, 2007, pp. 80-103) that were considered pivotal to the history of mathematics (Friberg, 2005, p. 270). Like a detective "following the money," this article attempts to trace the evolution of mathematics from its Ice Age African origins within the carvings of the Ishango Bone (24,000 – 20,000 BCE), to the present day. The Ishango Bone is widely recognized as the oldest documented evidence of mathematics, but—until now—scholars have been unable to provide a meaningful historical context for that mathematics. This article attempts to remedy that situation by demonstrating how mathematics and music integrate into two sides of the same spiritual coin. The "231 Gates" table documents our knowledge of number theory and vibrating strings, which became the forerunner of Superstring Theory and M-Theory, the leading candidates for a Theory of Everything within modern-day theoretical physics.

With respect to explaining the Kabbalistic mathematics embedded in the three holiest names of God, *Ehyeh* provides a detailed mathematical account of exactly who God is; *Yahweh* describes the hidden details of what God created; and *Elohim* chronicles when each object and being was created within the first 6 days of the creation week, while the practice of *Tardemah* is embodied by the 7th Day of Rest, i.e., Sabbath prayer. It is hoped that recovering these lost Abrahamic teachings will help mitigate the world's unrealistic and magical expectations about what it means to be or become a *Messiah* (Hebrew: *Moshiach*; Greek: *Christos*; English: Anointed One). Previous articles by this author attempt to demonstrate that Abraham's "Secret of Knowledge" reveals nothing less than religion's Rosetta Stone, i.e., the underlying mathematical and musical foundation of religious and philosophical metaphysics, as well as the prehistoric roots of a shamanistic "trance" meditation practice.

The author has traced Abraham's mathematics back to the Old Babylonian period (ca. 1800 - 2000 BCE). A chronicle of Biblical allegory informs us that Abraham inherited his *Secret of Knowledge* from Noah, who inherited his knowledge from Enoch. Enoch would have inherited knowledge of the Ishango Bone mathematics from the Biblical *Nephilim* ("Heroes of Old" or "Men of Renown") during the last Ice Age (ca. 24,000 – 20,000 BCE). This "Secret of Knowledge" then passed from Enoch to his great-great-grandson, Noah, and finally to the prophets Abraham and Moses. Ten generations after Noah, Abraham received "10 Noahide Laws." Seven generations after Abraham, Moses received Abraham's *Secret of Knowledge* as "Oral Law" on Mount Sinai directly from God Himself. Using the Bible as a guide to prehistoric times, the author has traced the evolution of mathematics and spirituality from their ancient origins. Number theory and acoustics have very early Biblical roots, dating back to the discovery of the Ice Age Ishango Bone in Africa. Nevertheless, the "Secret of Knowledge" has remained essentially unchanged from the time of the prehistoric *Nephilim* to that of Moses (Schatz, 2023). Unfortunately, Abraham's teachings and insights were lost to civilization about 2600 years ago and need to be recovered and fully assimilated if one has any hopes for interfaith reconciliation.

Chapter LXXI, p. 108). 2 Kings 25:18 affirms that the Neo-Babylonian King Nebuchadnezzar destroyed Solomon's Temple in 586 BCE, and murdered Seraiah, the last High Priest of Solomon's Temple to know the *Secret of Knowledge*. This date marks the beginning of the Babylonian Captivity. Without the benefit of Abraham's teachings, the three Abrahamic faiths have lapsed into sibling rivalries characterized by dogmatic exclusivity and hatred that has historically segregated the "children of Abraham" from one another. Ever since 586 BCE, the Jewish people have considered themselves in exile from God and from the *Promised Land* of Zion. Judaism's main impediment to understanding the metaphysical depth of the Hebrew Bible was best articulated by the great physician and Torah scholar Maimonides. He concluded that Judaism's significant loss of metaphysical secrets must have resulted from a "cultural norm that restricted its most precious knowledge to a learned few" (Schatz, 2024; Maimonides, 2007). The rabbinical community has always known that Abraham's lost *Secret of the Torah* would necessarily include numerology, since each of the 22 letters of the Hebrew alphabet also has a numeric value. Unfortunately, Maimonides did not appear to grasp the premise that Kabbalistic numerology is based on the integration of ancient number theory and the principles of vibrating strings, a field that has since evolved into a branch of modern physics known as acoustics.

Despite these limitations, the Hebrew Bible is known to have had a powerful influence on the New Testament of Christianity and the Quran of Islam. But without a proper understanding of *Tardemah* and its underlying mathematical framework, the Hebrew Bible's impact on those texts has been significantly distorted. Since any knowledge of Abrahamic mathematics was lost after 586 BCE, it is unlikely that either Christ or Muhammad received these mathematical teachings. Nevertheless, both men would have had to master Abraham's *trance* meditation practice to become legitimate prophets in the Biblical tradition.

Abraham's mathematical details are first introduced to the reader in Genesis 2. However, before we examine those details, it is important that we review the general descriptions of what was created in Genesis 1. In Genesis 1, we learn that **אלוהים** (*Elohim*) created Light and Darkness on Day 1 of Creation. We also know that the Heavenly Firmament was created on Day 2; the earth's vegetation, herbs, fruit trees, and the seas were created on Day 3; the heavenly luminaries were created on Day 4; living creatures were created on Day 5; and man was created on Day 6. Genesis 1 provides only a general description of what *Elohim* created each day of the creation week, and Genesis 2:1-3 describes *Elohim's* creation of the Sabbath as the Day of Rest. However, Genesis 2:4-6 introduces the reader to **יהוה** (*Yahweh*), who reveals the inner vibrational essence and substance of all objects and beings in Creation.

Yahweh's first creation of this vibratory essence was misleadingly described as a "mist." *Yahweh's* mist was created immediately after *Elohim's* Day 2 creation of the Heavenly Firmament, but before *Elohim* planted vegetation, herbs, and trees on the earth on Day 3. We must first explore the metaphor of Abraham's first creation as a "mist" rising from the earth.

⁴ *These are the generations of the heavens and the earth when they were created, on the day that the Lord God [Yahweh Elohim] made earth and heaven. ⁵ Now no tree of the field was yet on the earth, neither did any herb of the field yet grow, because the Lord God had not brought rain upon the earth, and there was no man to work the soil. ⁶ And a mist ascended from the earth and watered the entire surface of the ground.*

Describing *Yahweh's* first creation in a misleading way is typical of the obfuscation that Maimonides characterized as a "cultural norm that restricted its most precious knowledge to a learned few." This author is suggesting that solving the riddle of *Yahweh's* mist is the key to breaking through the obfuscation suspected by Maimonides. For answers, it would be helpful to examine the next verse, Genesis 2:7:

⁷ *And the Lord God formed man of dust from the ground, and He breathed into his nostrils the soul of life, and man became a living soul.*

Genesis 1 provides a general description of *Elohim's* creation of man on Day 6 of the creation week, but it is not until Genesis 2 that *Yahweh* reveals the inner vibrational essence (Hebrew: *pnimiyut*) of *Elohim's* various creations. Genesis 2:5-6 reveals that the Lord God's first creation was a *mist*, while the next verse, Genesis 2:7, informs us that "*the Lord God formed man of dust from the ground.*" The accepted translation of the Hebrew word עֶפֶר has always been "dust," as reflected in Genesis 3:19: "... *for you are dust, and to dust you shall return.*" However, the Hebrew word עֶפֶר can also mean dirt, soil, or clay, suggesting wet earth caused by "*A mist that ascends from the earth.*" A mist that ascends from the earth might also be called an underground spring. The Book of Creation reveals that this ascending *mist* embodies all four primordial elements: Earth, Water, Wind, and Fire, as the four primordial elements that define *Yahweh's* "Building Blocks" of Creation, God's metaphorical paintbrush. A proper understanding of עֶפֶר as wet earth or mud, rather than dust, is the entry point into a deeper understanding of the Hebrew Bible based on Abraham's Book of Creation mathematics.

During the time of both Abraham and Moses, it is safe to assume that most Hebrews were unaware of Old Babylonian mathematics. One exception to this would have been Moses himself, who received a sophisticated education in mathematics, architecture, and music as an adopted son of the Egyptian Pharaoh. To approximate the meaning of Abraham's four primordial elements, the Hebrews learned about one of religion's oldest symbols, the sphinx (Schatz, 2022). Historically, a sphinx was sculpted from the head of a man or cherub, the hooves or horns of a bull, ox, or lamb; the body of a lion or leopard; and the wings of an eagle or vulture. In the Hebrew Bible, the Book of Ezekiel depicts the sphinx as four, four-headed angels known as *Seraphim*, pulling Ezekiel's Chariot.

- Earth = symbolized by a bull, ox, or lamb
- Water = symbolized by a man or serpent
- Wind = symbolized by an eagle or vulture
- Fire = symbolized by a lion or leopard

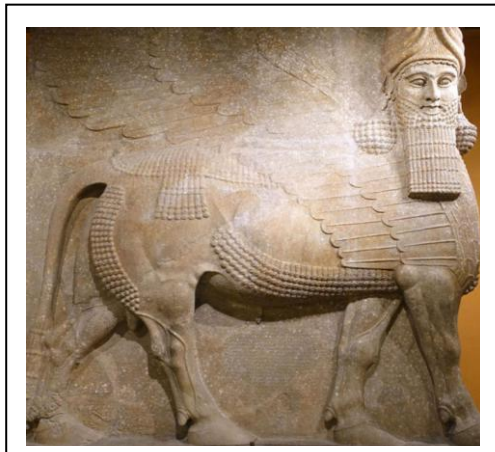


Figure 1a. Assyrian Sphinx



Figure 1b. Four Seraphim pulling Ezekiel's Chariot

At this point, we must turn to the mathematics of sound if we hope to understand the deep and hidden meaning of *Yahweh's mist*. Religion's oldest symbol, a sphinx, begins with a knowledge of the first four prime numbers: 2, 3, 5, and 7. The reason prime numbers are so important to *Yahweh's* creation process is that each new prime number generates new, as yet unheard sounds, whereas a composite number is composed of multiple prime number factors, so that each composite number integrates already heard sounds into composite musical intervals. For example, the number 6 is a composite number that can be factored into composite musical intervals: the prime number 2 (a musical octave) and the prime number 3 (a musical fifth) harmonize in the Hebrew letter-number *Vav* = 6 = (2 * 3). We might think of the number 1 as the "Oneness of God, so God's creation process always begins with divinity as the source of creation's inner vibrational sonic essence. If we were to arbitrarily pick the musical note "D" on a piano, that "D" would symbolize God (=1). Once we proceed to the number 2, we create an integer ratio 1:2 that sounds a second "D" sound, a musical octave (8 notes) higher in

pitch than the first “D.” This 8-note musical interval from “D” to “D” is referred to as a “perfect octave.” Here is a diagram that outlines all the music theory necessary to describe the first 6 days of *Elohim’s* Creation week, generated from the first 6 integers, along with the musical intervals formed by each pair of integers. Each pairing of numbers creates a musical ratio, which can also be written as a fraction. For example, 2:3 defines a musical fifth ascending in pitch. Whereas the ratio 3:2 defines a musical fifth descending in pitch. Figure 2 stacks musical intervals by simply counting and pairing integers.

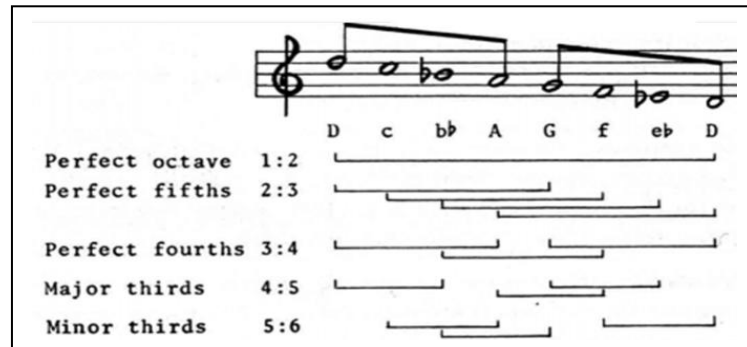


Figure 2. The seven sounds of a musical scale that David needed to soothe King Saul’s madness could be found on David’s harp or lyre (Hebrew: *Kinnor*). When building a musical harp, each integer can be thought of in terms of string length. Pairing two integer string lengths together creates a musical interval between the two sounds.

The Book of Creation 1:2 informs the reader that creation began when *Yahweh* uttered the *Ten Sefirot of Nothingness*. (Note 1) The word *Sefirot* translates to “Counting.” *Yahweh* uttered the first ten sequential numbers known as the *Kav* to initiate the Creation process. Included within the *Ten Sefirot* of the *Kav* are the first four prime numbers: 2, 3, 5, and 7, which would become the root of *Yahweh’s* four primordial elements symbolized by the sphinx: Earth, Water, Wind, and Fire. These four primordial elements were created from a specific type of geometric progression characterized by a common ratio of equal intervals, based on exponents of these first four primes. *Yahweh* transformed each of the first four prime numbers into a numeric base raised to a higher exponent. This becomes possible because the inverse of exponents defines logarithms, so, for any real number x : $x = \log_2 n$ $\iff 2^x = n$. Therefore:

- Earth = $(\log_2 n) = 2^0 + 2^1 + 2^2 + 2^3 + 2^4 + 2^5 + 2^6 \dots = 1 + 2 + 4 + 8 + 16 + 32 + 64 \dots$
- Water = $(\log_3 n) = 3^0 + 3^1 + 3^2 + 3^3 + 3^4 + 3^5 + 3^6 \dots = 1 + 3 + 9 + 27 + 81 + 243 + 729 \dots$
- Wind = $(\log_5 n) = 5^0 + 5^1 + 5^2 + 5^3 + 5^4 + 5^5 + 5^6 \dots = 1 + 5 + 25 + 125 + 625 + 15625 \dots$
- Fire = $(\log_7 n) = 7^0 + 7^1 + 7^2 + 7^3 + 7^4 + 7^5 + 7^6 \dots = 1 + 7 + 49 + 343 + 2401 + 16807 + 117649 \dots$

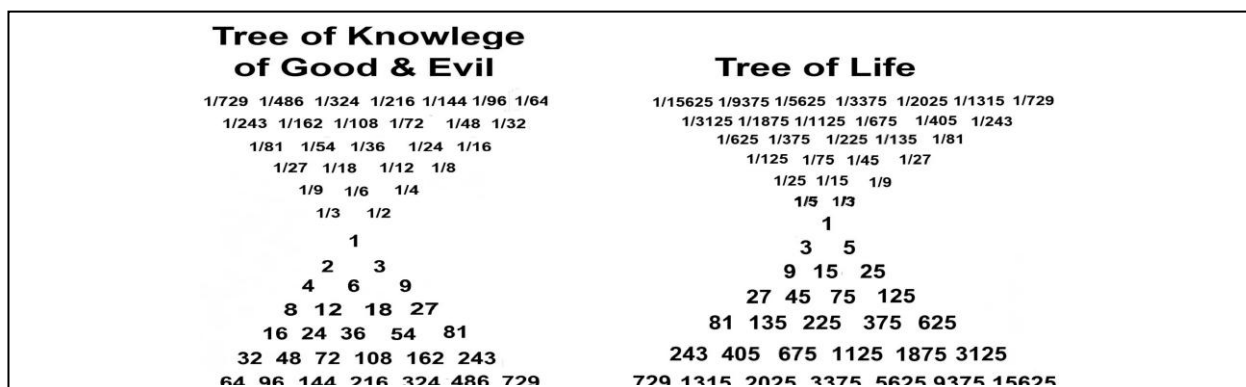


Figure 3. This diagram depicts the two Trees in the Garden of Eden, created from prime-number multiples: 2, 3, and 5, raised to higher exponents. Even without a complete understanding of logarithms and exponents, the resulting arithmetic on the right-hand side of the equations listed above can be visually applied to many of the Bible’s key symbols, as demonstrated above.

2. The Seven Occurrences of *Tardemah*

Genesis 2:21 – First Occurrence of *Tardemah*

*“And the Lord God caused a **deep sleep** to fall upon man, and he slept, and He took one of his ribs, and He closed the flesh in its place.”*

Yahweh created Eve because Adam was lonely and needed a companion. *Yahweh* learned about Adam’s loneliness in Genesis 2:18-20, after He introduced Adam to all the creatures created by *Elohim* on Day 5. After meeting and naming the world’s different creatures, Adam was still unable to find a suitable companion, so *Yahweh* decided to create a new companion for him taken from Adam’s own vibrational essence. *Yahweh* created Adam from mud, as already discussed, i.e., the primordial elements of Earth (powers of 2) and Water (powers of 3). It is important to recognize that Adam’s vibrational essence (Hebrew: *pnimiyut*) was a mathematical-musical subset modeled by the Tree of Knowledge of Good and Evil (powers of 2 harmonized with powers of 3). This became the context for the Bible’s first use of the word *Tardemah*. To facilitate the creation of Eve, *Yahweh* put Adam into a “deep sleep” (Hebrew: *Tardemah*), enabling God to borrow and replicate one of Adam’s “ribs” (ratio 2:3) to create the entire vibrational essence of Eve. This resulted in the 7 aspects of what the King James version refers to as Eve’s “Holy Ghost.” The twin serpents of a person’s Holy Ghost will lead that person into sin because they are associated with the body’s animal appetites. The Holy Spirit is something entirely different, despite Vatican II’s pronouncements that attempt to equate them.

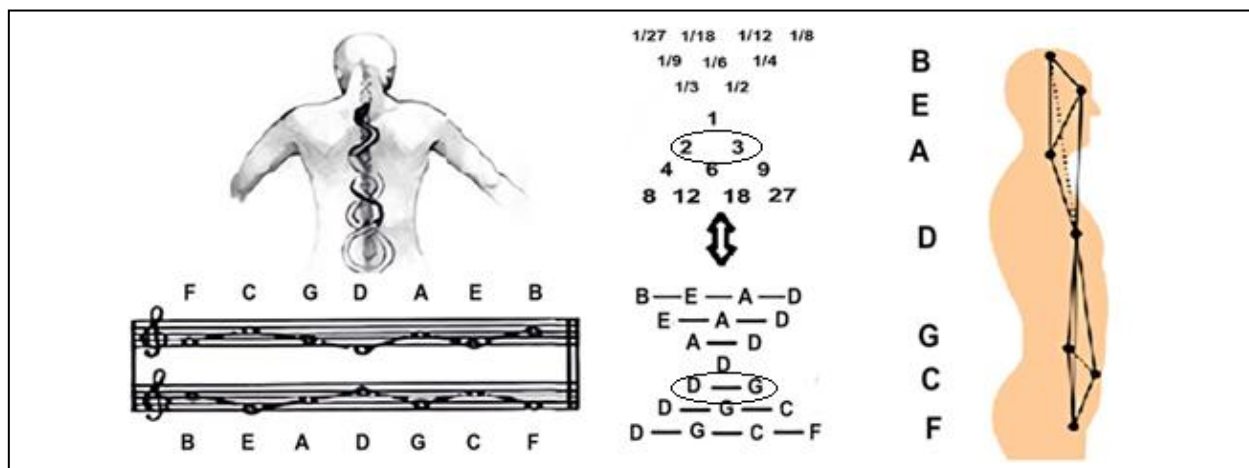


Figure 4. Taking a “rib” from Adam to create Eve. The twin serpents of Earth (powers of 2) appears in the diagonal “/”; Water (powers of 3) appears in the diagonal “\”; Adam’s “rib” appears as a horizontal “—” which defines a common integer ratio of 2:3, which is replicated by every horizontal ratio (e.g. 4:6, 6:9, etc.) along with reciprocals 3:2, 6:4, 9:6... The interlocking twin serpents also intertwine musically.

In Genesis 2:7, *Yahweh* teaches us that there is more to Adam and Eve than the twin serpents of a person’s animal appetites that lead people into sin. After *Yahweh* breathed the “soul of Life” into Adam’s nostrils, *Yahweh* also provided him with the angelic wings of a heavenly being.

⁷ *And the Lord God formed man of dust from the ground, and He breathed into his nostrils the soul of life (נְשִׁמַת חַיִּים), and man became a living soul [with angelic wings].*

As Adam’s companion, God also blessed Eve with angelic wings, enabling them both to ascend and descend to and from the Godhead in His highest realm within the Heavenly Firmament. It should be noted that giving both Adam and Eve angelic wings did not deny their “free will” to choose between Good and Evil. When Adam and Eve disobeyed God by eating the “forbidden fruit,” *Yahweh* stripped them of their angelic wings and cast them both out of Heaven, making them mortal and subject to suffering, death, and rebirth.

In Genesis 2:17, *Yahweh* warned them not to partake of the “forbidden fruit” on the Tree of Knowledge of Good and Evil, or they would surely die, since no innocent in Heaven should have knowledge of Good and Evil. This explains why the intertwined serpents symbolizing man’s animal appetites (or Holy Ghost) are phallic symbols known to lead mankind into sin as distractions from *Yahweh*. Adam and Eve listened to their appetites rather than to God. They sinned by disobeying Him. He then cast them out of heaven as eternal beings by removing their wings. In Genesis 3:24, *Yahweh* also stationed a Cherubim with a flaming sword to guard the Tree of Life from sinners, like Adam and Eve, so they could never “stretch forth their hand and take also from the Tree of

Life and eat and live forever.” The metaphorical “fruit” growing on the Tree of Life was angelic wings. Adam and Eve may have been guilty of *original sin*, but the angelic wings growing on the Tree of Life offered mankind hope of reentering the Kingdom of Heaven at some point in the future. As it happens, this hope is realized in the very next occurrence of *Tardemah* when the common man, Abram, was transformed into the holy man, Abraham.

Genesis 15:12 – Second Occurrence of Tardemah

*“Now the sun was ready to set, and a **trance** fell upon Abram, and behold, a fright, a great darkness was falling upon him.”*

Genesis 14:18-19 sets the stage for Abram’s ultimate transformation into Abraham. Melchizedek was the King of Salem (later renamed Jerusalem), and “*priest to the Most High God*,” who then “*Blessed Abram to the Most High God*.” In Genesis 15:1, “*the Word of Yahweh came to Abram in a vision*.” Genesis 15:12 describes a unique situation, suggesting that this might be the only instance of *Tardemah* that is best translated as a *trance* rather than *deep sleep*. Abram’s night visions began immediately after Melchizedek blessed him. This somehow facilitated Abram’s entry into a *trance* state accompanied by divine visions. After years of *trance* meditation, *Yahweh* would ultimately bless him with the Holy Spirit (*Ruach Hakodesh*), adding an angelic wing - the letter “H” (=5) - to his name, transforming him from a common man named Abram, into a holy man, named Abraham. The visions that followed Melchizedek’s blessing gave him a prophetic glimpse into his future: 400 years of captivity and suffering in Egypt, followed by freedom and salvation. Within these visions, *Yahweh* told Abram that he would have many descendants and become the father of many nations. *Yahweh* then gave Abram detailed instructions on how to create a *Covenant of the Parts* that would help facilitate the mechanics of *Yahweh’s* Covenant with *Abram and his seed*. After several years of mastering the *trance* meditation state, Abram’s sins would be purged and his soul liberated on the angelic wings of a Caduceus (Figures 5a, b, c, and Figure 6). Another important step to facilitate Abram’s holiness can be found in Genesis 15:9-17, where Abram was instructed to create a *Covenant of the Parts*:

⁹ *Take for Me three heifers and three goats and three rams, and a turtle dove and a young bird.* ¹⁰ *And he took for Him all these, and he divided them in the middle, and he placed each part opposite its mate, but he did not divide the bird.* ¹¹ *And the birds of prey descended upon the carcasses, and Abram drove them away...* ¹⁷ *It came to pass that the sun had set, and it was dark, and behold, a smoking furnace and a firebrand, which passed between these parts.*

In Genesis 17, this *Covenant of the Parts* would become a smoking furnace that would begin Abram’s transformation from a common man into a holy being named Abraham, and Sarai into Sarah, ultimately transforming them into *Anointed Ones* with divine gifts of wisdom, prophecy, and an ability to heal themselves and others (Schatz, 2024). The significance of these verses has been lost because Abraham’s mathematical and theological teachings were lost after 586 BCE with the death of Seraiah. After Abram left Haran at the age of 75, Genesis 15 describes *Yahweh’s Covenant of the Parts*, a Covenant that would be inherited by *Abram and his seed*. Genesis 16:15-16 tells us that Hagar had already given birth to Ishmael when Abram was 86 years old. Genesis 17:5 then describes Abram’s circumcision at age 99, marking the fulfillment of his Covenant with *Yahweh* in preparation for the birth of Isaac. During those 25 years, Abram mastered the *trance/hypnagogic* state that elicited the Holy Spirit (Hebrew: *Ruach Hakodesh*) by adding angelic wings to their essential being, thus transforming Abram into Abraham and Sarai into Sarah. Keep in mind that the “*trance*” state of consciousness is markedly different from the “*deep sleep*” experienced by Adam. The “*Covenant of the Parts*” empowered Abram to speak directly to *Yahweh* for the first time, just as Moses spoke to Him at the Burning Bush and Mount Sinai. This chronology explains why learning how to enter and remain in the “*trance*” state takes many years to master. This occurrence of *Tardemah* marks nothing less than the Hebrew Bible’s main message, mastering the *trance* state of *Tardemah* to earn one’s angelic wings from the Tree of Life. Recovering Abraham’s lost teachings offers humanity its best hope of realizing the original intent and purpose of religion: to eliminate religious dogmatic exclusivity by establishing a peaceful, harmonious world led by those who have mastered *trance* meditation.

Genesis 5:28 tells us that Enoch “*walked with God*,” while Exodus 33:11 tells us that “*God spoke to Moses face to face, as a man would speak to his companion*.” Since the true religion of Abraham existed before the holy books of Judaism, Christianity, and Islam were written, we must consider the difference between Abraham’s mathematical perspective and Moses’ allegorical perspective. The Torah considered Enoch, Noah, Abraham, Moses, Aaron, and Seraiah as “*Anointed Ones*.” As the father of all three Abrahamic faiths, Jesus was born in the line of David, while Muhammad was born in the line of Ishmael. Genesis 12:7 and Genesis 17:7 tell us that God’s Covenant was with “*Abram and his seed*,” which includes all the descendants of Isaac and Ishmael, as well as the children of the concubines that Abraham took after Sarah’s death. There is a Kabbalistic tradition that Abraham gave those children *divine gifts* and then sent them East, where they established the Eastern religions

based on Abraham's teachings. Evidence supporting this conclusion regarding Hinduism, Buddhism, and Taoism was provided in earlier publications (Schatz, 2007; Schatz, 2023). Recovering the *Secret of the Torah* has inspired this author and researcher to follow Abraham's *trance* meditation practice for the last 30 years. Thus, personal experience attests to the ability of all "children of Abraham" to learn and master this practice.

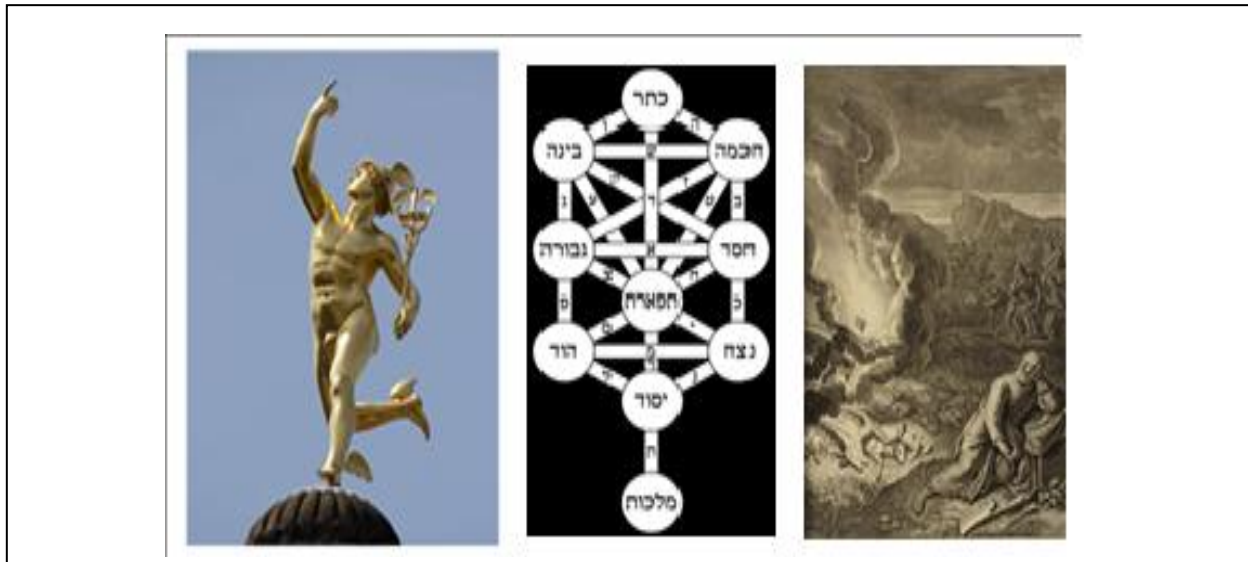


Figure 5a. The Greek messenger of the Gods is Hermes, and his Roman name is Mercury. He carries the Caduceus of man's soul as the "Messenger" between Divinity and mankind.

Figure 5b. The ten aspects of man's inner being, as seen through the lens of Lurianic *Partzufim*, are symbols of man's inner Caduceus formed by God's ten emanations.

Figure 5c. The Covenant of the Parts harmonized the 10 aspects of man's inner being

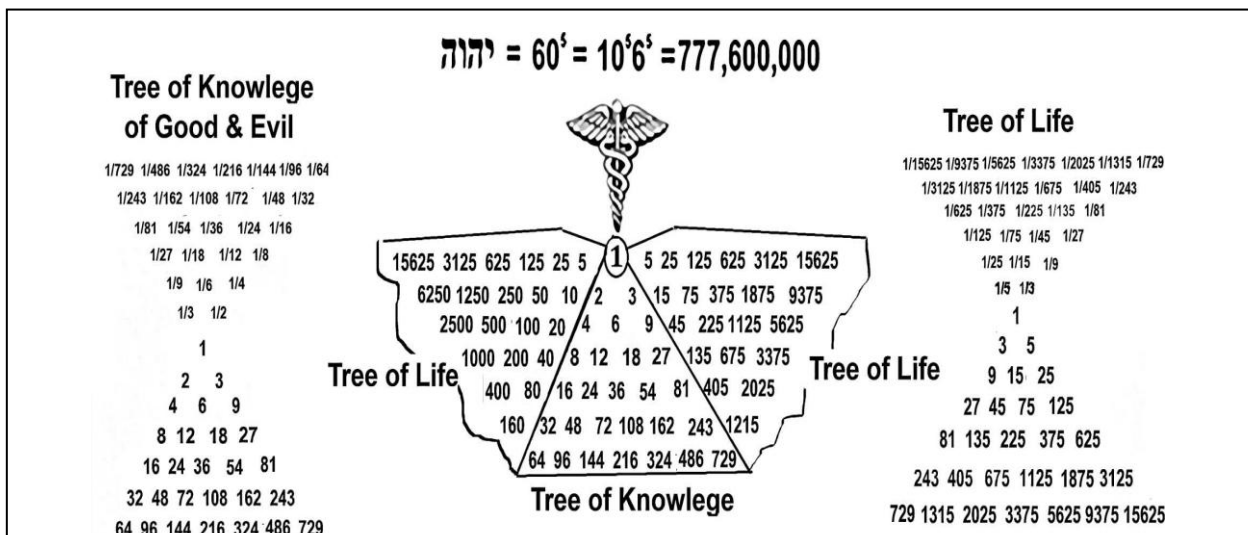


Figure 6. Abraham's mathematics details the Yahweh Caduceus as "The figure of a bird represents Metatron (God's highest-ranking angel), with His head the Hebrew letter yud, the body is the letter vav, and the two wings are the two letters heh (Zalman, 1973: p. 204).

There is one learned rabbi and scholar who attempted to verbally approximate Abraham's mathematical teachings. That rabbi is Isaac Luria (1534-1572), who is considered the father of modern Kabbalah, largely due to his interpretations of two key Kabbalistic texts: the *Zohar*, a highly accessible 13th-century Aramaic text, and Abraham's highly esoteric Book of Creation (Schatz, 2024). The *Zohar* admits that it is unable to reveal the

“deep and hidden things that issue from God’s thought and are taken up by the Voice [of Elohim] which are not disclosed til the Word [Yahweh] reveals them” (Zohar, 1984: 32a). It further states that these “deep and hidden things” define “secret paths that cannot be discovered” (Zohar, 1984: 30b). This author’s various publications demonstrate that the Zohar’s “secret paths” can indeed be recovered (see Figures 10, 11, and 12) as the mathematics and physics of vibration that emanates from the Voice of *Elohim* (אלוהים) in Genesis 1, from the Hand of *Yahweh* (יהוה) in Genesis 2, and from the Oneness of *Ehyeh* (אהיה) in Exodus 3. Since Abraham’s mathematics was lost more than 2600 years ago, Rabbi Luria made a noble attempt to simplify the Book of Creation’s mathematics by introducing popular and easily accessible “doctrines.” The reader might want to compare these Lurianic simplifications to the actual mathematics depicted in Figures 10, 11, and 12 (Schatz, 2007, pp. 184-187). At the heart of Abrahamic mathematics is also the Old Babylonian Caduceus depicted in Figure 6 that Abraham inherited from the Third Dynasty of Ur (ca. 22nd-21st c. BCE). The Libation Vase of Gudea (Figure 7) depicts an older Caduceus, depicting the Neo-Sumerian God *Ningishzida* as two intertwined serpents, flanked by winged leopard-dragons.

We know that Abraham was born and educated in the city of Ur. The Amorites came to rule Ur and several other Mesopotamian cities. Abraham’s Amorite parents would have spoken an ancient Northwest Semitic language of Afroasiatic descent. His education would have included a rich legacy of Ur’s writings and priestly practices that evolved during the Neo-Sumerian (2112–2004 BCE) and Old Babylonian (1894–1595 BCE) periods, both of which were high points of mathematics and culture. The author also presents evidence corroborating the prehistoric origins of Abraham’s Secret of Knowledge, which dates to at least the Neolithic Period and is associated with the first Biblical holy man, Enoch (ca. 9,600 BCE). The mathematics and symbolism of the Caduceus/Sphinx depict history’s oldest religious symbol (Schatz, 2022; Schatz, 2023).

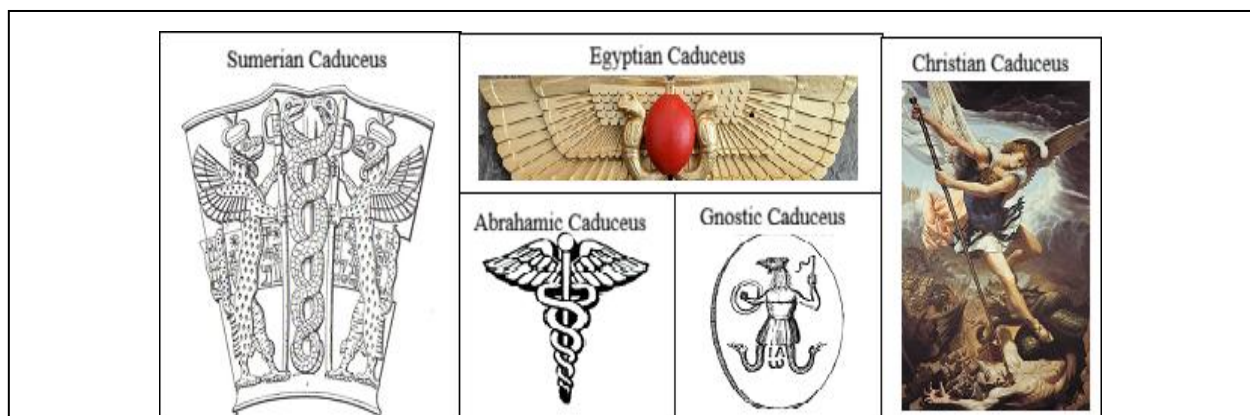


Figure 7. Historic examples of the Caduceus as God’s Messenger. The Caduceus is the main *Tardemah* vehicle, which can only be realized through *trance* meditation.

These Abrahamic mathematical and theological teachings became the foundation of all three Abrahamic faiths: Judaism, Christianity, and Islam. There is also evidence that identical mathematics and sonic theology appears in the Rig Veda, the oldest Hindu text. Buddhist cosmology and Taoist practices also appear to be rooted in Abrahamic teachings. This lends credence to the rabbinical tradition that Abraham gave “divine gifts” to the children of his concubines after Sarah’s death and then sent them East to become the Eastern faiths.

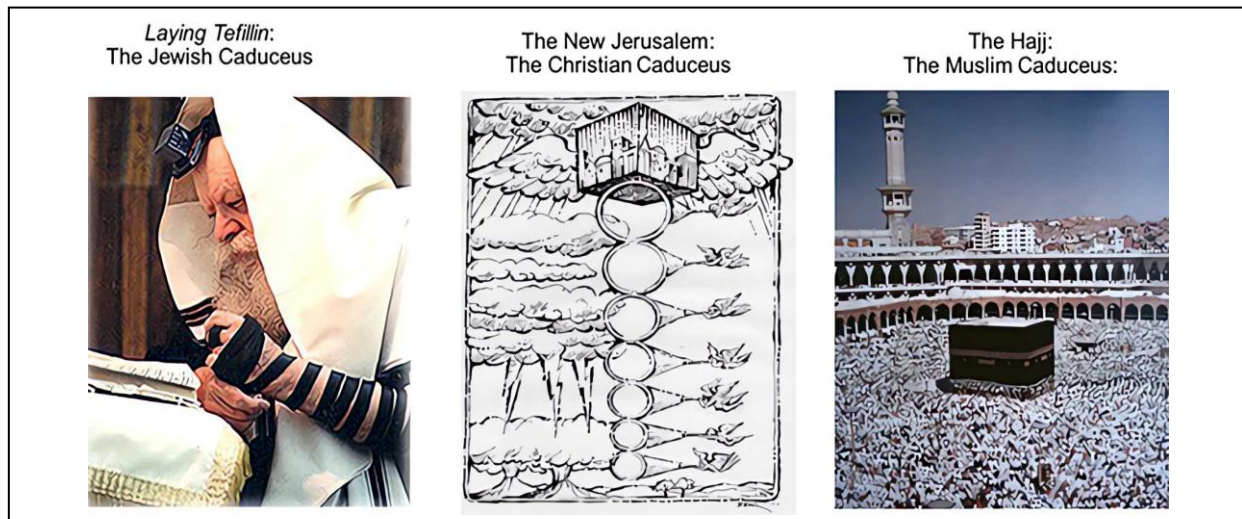


Figure 8. Abraham's trance meditation practice of *Seven Circuits Around the Sacred Cube*. The 3 aspects of the mind lead the divine light of the animal soul's 7 aspects (Hebrew: *Middot*) to revitalize the 12 Directors of the Soul, i.e., the body's 12 organ meridians.

1 Samuel 26:12 – Third Occurrence of Tardemah

*“And David took the spear and the jug of water from near Saul's head, and they went away. And no one saw and no one knew and no one awakened, for they were all asleep, because a **deep sleep** from the Lord had fallen upon them.”*

Although this Biblical passage clearly refers to *Tardemah* as *deep sleep*, the third occurrence of *Tardemah* is noteworthy for its allegorical context, which emphasizes the importance of becoming an *Anointed One* through mastery of *Tardemah's* trance practice. King Saul was the first Anointed King of Israel, but in 1 Samuel 16:1, *Yahweh* rejected him as King because of his self-centered behavior, once again demonstrating that the angelic wings of an Anointed One do not preclude free will. *Yahweh* then instructed Samuel to search for and Anoint Israel's next King from among Jesse's eight sons.

¹³*And Samuel took the horn of oil and anointed him in the midst of his brothers. And a spirit of the Lord passed over David from that day forth, and Samuel arose and went to Ramah.* ¹⁴*And the spirit of the Lord departed from Saul, and an evil spirit from the Lord frightened him.* ¹⁵*And Saul's servants said to him, "Behold now, an evil spirit of God is frightening you."* ¹⁶*Let our lord say (your servants are before you), 'Let them seek a man who knows how to play on the harp'; and it will be, that when the evil spirit of God is upon you, he will play with his hand, and it will be good for you."*

After killing Goliath, David became popular with the Israelites. Saul was jealous of his success and feared that David would take his throne. An evil spirit filled Saul, but David's harp playing soothed his madness. Saul eventually learned that Samuel had already anointed David to become Israel's next King. As a result, Saul and his troops set out to kill David, but *Yahweh* put them all into a deep sleep, enabling David to take Saul's spear and a jug of water near Saul's head. This ultimately proved that David was Saul's faithful subject who would not kill an *Anointed King* even when his own life was in danger. *Yahweh* put Saul and his troops into a “*deep sleep*” to make Saul remorseful and repentant for wanting to kill David (1 Samuel 26:23-25).

This episode underscores the importance of what it means to be an “Anointed One.” The inner vibrational essence of David's soul was expressed through his harp-playing. This story tightly couples Abraham's mathematics to the sonic theology of music. The story of Biblical music can be traced back to the evil lineage of Cain and his descendants. Genesis 4:21 describes Lamech's sons, Jubal and Jabal. Jubal is said to be the father of music, who invented the flute and the harp, while his brother Jabal became the first tentmaker. (Note2) The story of these two brothers symbolically links the harmonic nature of a person's harp-like soul to the geometry that defines the tent-like container of the physical body, along with its physical appetites. The relationship between one's physical appetites that hold the soul captive, and one's angelic wings that free the soul's twin serpents from the “mud,” is defined by the underlying mathematical/musical framework in Figure 6. Jubal and Jabal taught their contemporary, Enoch, all they knew. Born into the righteousness of his patriarchal lineage, Enoch harmonized the music within his animal soul with the geometry of his body's tent-like container, thereby empowering him to free his soul on angelic wings through mastery of *trance* meditation. In the story of David,

the reader is obliged to recover the allegorical context of Jubal and Jabal, which explains that Enoch was the first Biblical *Anointed One* to master *Tardemah*, 7 generations after Adam.

Job 4:13 - Fourth Occurrence of Tardemah

*“In the thoughts of the visions of night, when **deep sleep** falls on people.”*

The Book of Job addresses the problems of justice and undeserved suffering. The allegorical context for Job 4:13 can be found in the first two chapters of Job, which ask whether a Godly man can be influenced by *Satan* (Hebrew transliteration: *Ha Satan*; English: God’s “Adversary”). God’s “Adversary” appears as a member of the heavenly court among the “Sons of God” (Hebrew: *Bene Elohim*). Satan argued that Job would not be so pious if he did not have his health, his ten children, and his great wealth. *Yahweh*, therefore, allowed *Satan* to take away all those things from Job, but he must agree to allow Job to live. Satan believed Job would blame God for his suffering and turn away from Him. *Yahweh* believed that Job would remain righteous and true to God.

Chapter 4 describes Eliphaz’s night vision, one of Job’s three friends who echoed Satan’s position that suffering is necessarily caused by sin. Eliphaz experienced a night vision that questioned whether man could ever be above sin. Eliphaz asserted Satan’s belief that suffering always results from sin and that Job should not be so self-righteous. Satan subjected Job to the ultimate crucible, enabling *Yahweh* to demonstrate that Job’s faith was unshakeable despite his great suffering. There was no confusion about the need for justice when Cain killed Abel, just as there was no question about the need for justice after the genocide of 6,000,000 Jews during WWII, but where was God’s justice in the case of Job’s suffering if Job always remained righteous? Although there is much suffering in today’s Middle East, Jews, Christians, and Muslims all believe themselves to be just. If all believed in their own righteousness, how could *Yahweh* choose sides among the children of Abraham? This raises the question: “Does man have the right to question God?” The next section answers that question.

Job 33:15 - Fifth Occurrence of Tardemah

*“In a dream, a night vision, when **deep sleep** falls upon men, they slumber on their beds.”*

In Job 23:3-9, Job questions why his pleas to God go unanswered, despite his righteousness and faith. Has God forsaken him? Job’s suffering has raised many questions for him, and he longs for explanations, but *Yahweh* has always remained hidden from him.

“³ Would that I knew and I would find Him; I would come to the place prepared for Him. ⁴ I would set out my case before Him, and I would fill my mouth with arguments... ⁸ Behold, I go to the east and He is not here, and to the west and I perceive Him not. ⁹ In the north, when He made it I do not see; He wraps up the south and I cannot see.

In the fifth occurrence of *Tardemah*, Elihu tells Job that the only way to communicate with *Yahweh* is through “night visions.” In Job 33:15-18, Elihu tells Job that *Yahweh* communicates with humans through dreams and “visions of the night.” There is no suggestion that Elihu mastered *Tardemah*’s trance/hypnagogic/dream state. However, Elihu expounds on the various aspects of communication with *Yahweh* during night visions. In Job 33:1-14, Elihu begins by discussing the role that one’s tongue and palate play in speaking both meaningless, empty words versus the clear, profound words that emanate from the essence of one’s being. Elihu also explains to Job that these *night visions* enable a person to hear the Word of God with great wisdom and depth of meaning.

Elihu was teaching Job about the value of *Tardemah*, even though he had not personally mastered the *trance* state of consciousness that characterized *Yahweh*’s Covenant with “Abram and his seed.” Job was apparently a righteous man, free from sin and meaningless distractions from God. After a lifetime of suffering and longing for *Yahweh*, Job effectively lived his life in the *trance* state of *Tardemah*. Once *Yahweh* proved to Satan that Job would never stray from Him, despite Job’s great suffering, *Yahweh* finally appeared and spoke to Job. *Yahweh*’s appearance confirms that Job had transformed himself into an *Anointed One* capable of speaking to God “as a man would speak to his companion.” In Job 38:1, *Yahweh* speaks to Job from the whirlwind.

In 2 Kings 2:11, the prophet Elijah was taken to heaven in the same miraculous *whirlwind*, riding in the LORD’s fiery Chariot Throne, as described in Ezekiel 1. This allegorical symbol encrypts the *Secrets of the Chariot* (*Merkabah Mysticism*), which is synonymous with Abraham’s *Secret of Knowledge*, which transformed Enoch, Noah, Abraham, and Moses into Anointed Ones. Ezekiel’s Chariot is depicted in Figure 1b as an alternative spiritual vehicle to the Caduceus depicted in Figure 6. The Spirit of *Yahweh* depicted in the *Four “Crosscut” Wheels of Ezekiel* (Figure 9) corresponds to the four primordial elements of Earth, Water, Wind, and Fire that embody the Sphinx-like *Seraphim* pulling *Yahweh*’s Chariot (see Figure 1b). The two prime-number bases of Earth (powers of 2) and Water (powers of 3) are mathematically intertwined within the Hebrew letter *Vav* = 6 = (2 * 3). It is the composite number 6 that is lifted to the Godhead (*Yod* = “י” in יהוה) while riding on the angelic wings of the Chariot’s “Mercy Seat.” The angelic wings of the Holy Spirit are defined by the twin letters *Heh* in יהוה = ה__ה. The Chariot’s “4 Wheels of Ezekiel” corresponds to *Yahweh*’s four “Building Blocks” of Creation

that gave rise to Time, the Soul, and the Universe. The *Secrets of the Chariot* provides a mathematical template that models all three types of angels that make up the Chariot. The key to becoming an “Anointed One” through *Tardemah* is encrypted in the *Secrets of the Chariot* (Figure 1b) and in the Caduceus of Figure 6.

- *Ophanim*: four “crosscut” wheels of Ezekiel define mathematical/musical *tone circles*
- *Seraphim*: four divine creatures that symbolize the four primordial elements (Figure 1b)
- *Chayot*: tiny flames of sound and color carrying *Yahweh*’s vibrational essence.

We know that Job had entered the “Promised Land” as an “Anointed One” because *Yahweh* appeared to him in Job 42:5 and spoke to him in Job 38:1 from the same *whirlwind/tempest* that took Elijah and Ezekiel to Heaven (Figure 1b). To answer all of Job’s many questions, *Yahweh* would have taught him the *Secret of Knowledge*. The author is confident that he has recovered the entirety of Abraham’s “Oral Law” as the mathematical template for the “Written Law” of Moses. Just as Moses encrypted the entirety of Abraham’s “Oral Law” into the Torah’s metaphors, allegories, and symbols, he also encrypted the entirety of Abrahamic mathematics into the three holiest names of God. Abraham’s 231 Gates mathematics provides the underlying mathematical template that must be applied appropriately to these three holy names to fully grasp the Secret of Knowledge, which embodies the sum total of Kabbalah and defines the true religion of Abraham. This section is especially long because Job had many questions, and the author has attempted to convey an approximation of *Yahweh*’s thorough and necessarily complex responses.

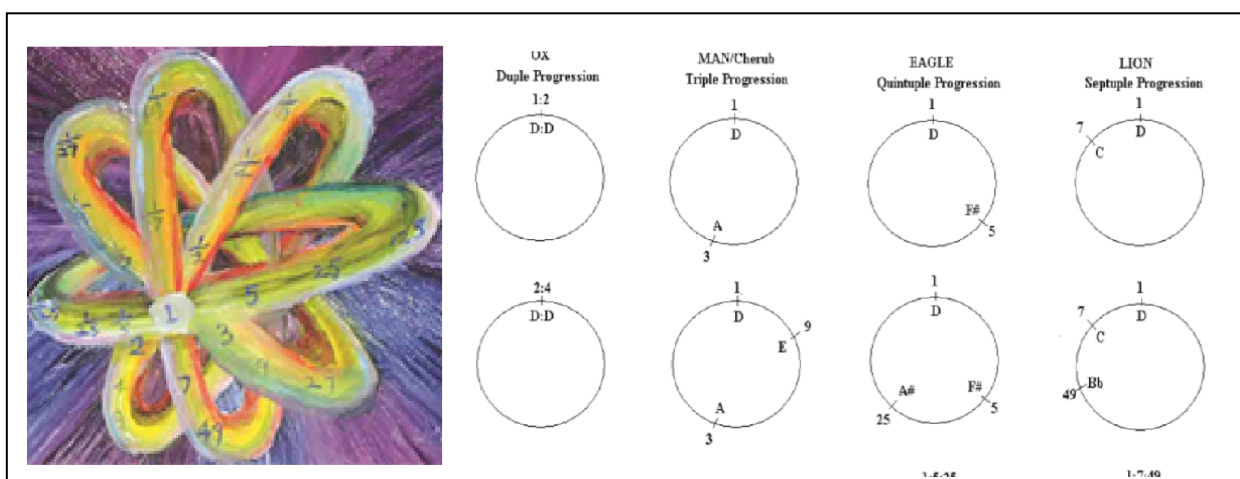


Figure 9. The spirit of *Yahweh* can be found in the Four Wheels of Ezekiel’s Chariot.

To understand exactly who God is, we must introduce the deep, hidden Kabbalistic meaning of *Ehyeh*. That explanation begins with the Hebrew letter-number *Alef* = “א” = “A” = 1, the first letter of *Ehyeh* (אהיה). Since the number 1 is the only common factor of all integers, it alone can be characterized by the divine numerical trait of all-inclusiveness. This defines the “*Oneness of God*” (Arabic: *Tawhīd*) as the pivot point between number and language. The Book of Creation refers to “*The One*” as the “*Living God*” (Kaplan, 1990, p.68). Now that we have established the letter-number *Alef* in terms of “Oneness,” we must also explain the hidden meaning of the other three letter-numbers in *Ehyeh*. The second, third, and fourth letters of *Ehyeh* (אהיה) are “ה-י-ה,” which are typically translated in Hebrew as the verb “to be,” thus all four Hebrew letters of *Ehyeh* translate to “I AM.” Although this is true, it is a superficial truth intended to obfuscate the Kabbalistic truth, which looks to each letter-number’s deeper meaning as part of a sonic integer ratio pair. The Book of Creation expounds on Jewish mysticism in terms of the Kabbalistic letter-numbers that pair together to form the integer ratios of sound and light, the inner vibrational essence of Creation’s rainbow, which also underlies the mathematics of the Bible and is encrypted in the three holiest names of God. These three mathematical treasure chests derive from the Book of Creation’s 231 Gates table, soon to be revealed.

The Hebrew letter-number *Yod* = “י” = 10 appears in both the names *Ehyeh* and *Yahweh*, and in both names, the number 10 corresponds to God’s Voice uttering 10 *Sefirot* during Phase 1 of Creation (*Olam HaTohu*), bringing order to a world that was unordered and void (Hebrew: *tohu* and *vohu*). The word *Sefirot* translates to “Counting.” In other words, God counted from 1 to 10 and *abracadabra* – the world order was created. In Aramaic, the word *avara k’davara* (אברא כדברא) means “*I will create as I speak*” (Kushner, 2013: p. 11). On day 1, God created as He uttered the 10 *Sefirot* as the letter *Yod* = “י” = 10, the first letter of *Yahweh* (יהוה) and the third letter of *Ehyeh*

(אהיה). Those 10 *Sefirot* are also known collectively as the *Kav*, i.e., ten sequential numbers (with their reciprocals), uttered by God as the foundation of the Heavenly Firmament (Figure 10). The relationship between the numbers 10 and 7 is key to our understanding of the Heavenly Firmament. It takes 10 sequential integers (with reciprocals) to generate a rainbow of 7 sounds and colors as the inner vibrational essence of all objects and beings in Creation. However, 10 *Sefirot* multiplied by the 22 letters of the Hebrew alphabet implies that there would only be $10 * 22 = 220$ Gates in Abraham's table of vibrating strings. Since there are 231 Gates, this appears to be another attempt to subtly obfuscate Judaism's lost Kabbalistic secret, which describes $11 * 21 = 231$ Gates. If God ("The One") utters 10 sonic vibrations, we must also include the letter-number *Alef* = 1 in our "X" axis for a total of 11 sequential numbers in the first row of Abraham's Heavenly Firmament. Since the Hebrew alphabet has no letter-number equivalent for 11, the next sequential letter-number after 10 is 20. This is demonstrated in the "X" axis of Figures 10, 11, and 12. How can we justify substituting 20 for 11? It happens that the number 20 is also included in nature's harmonic sequence. Figure 11 depicts *Yahweh's* creation of the Heavenly Firmament on Day 2, in terms of reciprocal harmonic and arithmetic progressions. The Book of Creation's completed 231 Gates table appears in Figure 12. Abraham describes God and Creation as an integration of nature's three types of mathematical progression: harmonic, arithmetic, and geometric, all of which then reflect into the cosmos. Day 4 of the Biblical Creation story informs us that the microcosm of the soul reflects in the macrocosm of the cosmos, although the "231 Gates" table omits astronomy as a mathematical progression, since astronomical progressions are not a mathematical reality.

The 231 Gates table's "Y" axis is comprised of 21 letter-numbers rather than the 22 letters of the Hebrew alphabet. Why? This appears to be yet another riddle, a riddle that can only be explained by reading further in the Book of Creation. The last letter-number on the "Y" axis of the 231 Gates table is *Shin* ("ש") = 300. However, the Hebrew alphabet's last letter is *Tav* = "ת" = 400. The *Tav* is omitted from the "Y" axis because the Book of Creation 4:14 informs us that the letter *Tav* "formed the Sabbath," and since we know that no objects or beings were created on the Sabbath, it was purposely omitted from the 231 Gates "Y" axis of Creation. Maimonides blames the great sages of the past who appear to have imposed the Jewish cultural norm of restricting Judaism's "most precious knowledge to a learned few."

Now that we have explained *Ehyeh's* first and third letters (*Alef* and *Yod*), we will next address an explanation for the two letters *Heh* = "ה" = "H" = 5 that appear as the second and fourth letters of both *Ehyeh* and *Yahweh*. To understand the importance of this letter-number, we must return to the first occurrence of *Tardemah*, which tells the story of Adam and Eve. It has already been explained that Abraham's mathematical/musical conceptualization defines the inner vibrational essence of God and the common substance of Creation (Greek: *homousion*). (Note 3) That common substance is said to be shared by Christianity's Holy Trinity: the Father, Son, and Holy Ghost. We might also recall that mankind's tendency to sin can be attributed to Adam and Eve's twin serpents of Earth (powers of 2) and Water (powers of 3), which led them into "original sin." As already stated, the King James Version is correct in calling this the Holy Ghost. However, the Second Vatican Council replaced the term "Holy Ghost" with "Holy Spirit." Abraham's teachings explain that these two expressions are both relevant but apply to two different aspects of the *Yahweh* Caduceus (Figure 6). They have never had interchangeable meanings.

As mortal descendants of Adam and Eve, the twin serpents of Earth and Water also embody the animal appetites of Abram and Sarai. And, as mere mortals, it is appropriate to describe mankind's animal appetites in terms of the Holy Ghost. The second occurrence of the term "*Tardemah*" requires us to recall the story of Adam and Eve and the Cherubim with a flaming sword that kept these sinners away from the Tree of Life because they were not worthy of angelic wings. The heavenly "fruit" growing on the Tree of Life was angelic wings. *Yahweh* renamed Abram to Abraham and Sarai to Sarah by adding the letter-number *Heh* = "ה" = "H" = 5 to both their names. *Yahweh* added the Holy Spirit (Hebrew: *Ruach Hakodesh*) by adding angelic wings to both their names. Mastering *Tardemah's* trance practice realized God's Covenant with *Abram and his seed*, by empowering mere mortals to reenter Zion as the "Kingdom of Heaven," or "Promised Land." *Anointed Ones* like Abraham and Sarah would therefore receive the divine gifts of wisdom, prophecy, and healing (Schatz, 2024). With angelic wings, Abraham and Sarah were free to ascend and descend from the lowest realm of Darkness to the highest realm of Light within God's Heavenly Firmament (Figure 11).

The words *Ehyeh* and *Yahweh* both include a pair of angelic wings. The first letter (*Alef* = 1) in *Ehyeh* (אהיה) describes "The One," while its two letters *Heh* define the angelic wings that ascend and descend within the Heavenly Firmament, carrying the letter-number *Yod* = "י" = 10 between its wings as ה-י-ה. We might best summarize the meaning of *Ehyeh* as "The One" who emanates the Heavenly Firmament's rainbow of sound and light as the vibratory essence and substance of all objects and beings in Creation. With respect to God's holiest name, *Yahweh* (יהוה), its first letter is the letter *Yod* = "י" = 10, i.e., the 10 sequential numbers that generate the rainbow's 7 sounds and colors that emanate from the *Yod* or Godhead. The rainbow essence of mankind's Caduceus (Figure 6) is structured by two angelic wings that lift the twin serpents of man's sinful appetites (*Vav*

= “י” = 6) out of the mud (ה-ו-ה), ascending and descending the Heavenly Firmament to and from the rainbow Godhead (*Yod* = “י” = 10).

Elohim is the oldest of the three holy names, dating to the Old Babylonian period, associated with Abraham. *Elohim* was used in Canaan seven generations before Moses encrypted Abraham’s mathematics in the *gematria* of *Ehyeh* and *Yahweh*. As a result, Mosaic *gematria* is not as relevant to our understanding of *Elohim*. Theologian Karen Armstrong states that “*It is highly likely that Abraham’s God was El, the High God of Canaan. The deity introduces himself to Abraham as El Shaddai (God of the Mountain) ...the name of the Canaanite High God is preserved in such Hebrew names as Israe-El or Ishma-El.*” The Bible itself corroborates this in Exodus 6:2-3, when “*God said to Moses, ‘I am the LORD (יהוה), I appeared to Abraham, to Isaac and Jacob as El Shaddai [Hebrew: אֱלֹהִים; English: God Almighty], but by my name the LORD [יהוה] I did not make myself fully known to them.*” Ugaritic scholar Mark Smith corroborates Armstrong’s argument that the Pre-Biblical Canaanite God was known by the name *El* (אל) or *Elohim* (אלוהים) rather than *Yahweh* (יהוה). “It seems almost certain that יהוה, the God of the Jews, was the result of Mosaic *gematria* that evolved after Moses learned that the Canaanite *El* (אל) was the ‘God of Abraham.’” Smith notes that the name *Elohim* is in its plural form because *Elohim* was considered the head of the Canaanite pantheon of polytheistic gods. *Elohim* might therefore be described as “God among gods.” No one would argue that there were multiple gods in Canaan during the Old Babylonian Period. However, for Moses, *Elohim* did not imply polytheism, but rather, the “Oneness of *El*.” Since Moses was the Biblical figure who would have encrypted Abraham’s mathematics into both *Yahweh* and *Ehyeh*, we might consider the notion that Moses deliberately used *Ehyeh* as a synonym for *Elohim* to impose the “Oneness of God” on the plural name *Elohim*.

Figure 6 shows that the lost *gematria* of God’s holiest name, יהוה (Hebrew transliteration: *Yahweh*, *Jehovah*, *YHVH*), is $60^5 = 10^5 6^5 = 777,600,000$. In Old Babylonian Ur, Abraham would have been trained in sexagesimal, base-60 mathematics. The true *gematria* of יהוה is considerably more complex than simply adding its letter-numbers together to get $10+5+6+5 = 26$. Leviticus 25:8-54 and Leviticus 27:16-24 describe the meaning of this number in terms of how long one must practice *Tardemah* to master trance meditation. We know that *Elohim*’s creation week lasted the six days of the creation week plus a seventh day as the Day of Rest. Sabbath “Rest” implies the existence of a Sabbath prayer that integrates the energies of weekday prayer. The components of Abraham’s sacred *Tardemah* trance practice can be described as 3 aspects of the mind leading the divine light (Hebrew: *Orot*) around the 7-character traits of the animal soul, which in turn revitalizes the “12 Directors of the Soul,” i.e., the 12 diagonals of the body’s “sacred cube” as symbolized by the 12 edges of any geometric cube. There is strong evidence that Taoism draws heavily on the Book of Creation, identifying its “12 Directors of the Soul” as the body’s 12 organ meridians. Traditional Chinese Medicine (TCM) also appears to draw on the Book of Creation for meditation and healing techniques to balance one’s divine energies within one’s 12 internal organs. *Tardemah* trance meditation is said to purge sin and liberate the soul from its captivity within the body’s appetites. Daily trance meditation energies then integrate into Sabbath prayer, for 7 years of Sabbaths (Sabbatical), and for 7 Sabbaticals (Jubilee Year). In the Jubilee Year, the children of Abraham are instructed to:

- To rest the soil.
- Revert landed property to its original owner, who had been driven to sell it.
- Free any slaves
- Remit one’s soul back to God.

It is therefore no coincidence that Jacob, an “Anointed One,” lived through three Jubilee Years and died at 147 years (= $49 * 3$). Similarly, Lamech, Noah’s righteous father, died at 777 years. The true *gematria* of the Holy Tetragrammaton (יהוה = 777,600,000) embodies the metaphor describing Exodus 12:37, which depicts an enlightened Moses (=777) leading 600,000 “men on foot” out of captivity in Egypt to the Promised Land. The higher-order digits of *Yahweh* (777) correspond to the sacred practice of Moses, mastering the trance state of *Tardemah* to purify his body and liberate his soul from its captivity within it, thereby transforming him into one of God’s *Anointed*. Mastering *Tardemah* in this manner purged any sin from the intertwined serpents of Moses’ physical appetites (Earth as powers of 2 and Water as powers of 3). Figure 6 then depicts how Moses earned his angelic wings from the Tree of Life. The *gematria* of יהוה, in only four letters, teaches us the entire story of the Exodus, with Moses (=777) metaphorically leading the 600,000 Hebrew men out of their captivity in Egypt to the “Promised Land.” The entire Book of Exodus might therefore be considered a metaphor for *Tardemah*. Entering the *Promised Land* requires us to be righteous and free of sin. In Numbers 20, the reader is told that even Moses was not permitted to lead his people into the Promised Land because he disobeyed *Yahweh* at *Meribah*. By the time they reached the Jordan River, only Caleb and Joshua, who were among the original Exodus participants, were considered sufficiently righteous to lead people into the Promised Land. Mastering *Tardemah* implies that we remain as righteous as Job to become an Anointed One.

This entire Exodus story is a metaphor for what it takes to enter the *Promised Land* of Zion as the *Kingdom of Heaven*. The reader must be clear that the Promised Land is a spiritual reflection of the geographical land of Canaan/Israel. One cannot simply board a boat or plane and expect to enter the *Promised Land*. Centuries of hatred among Abraham's children stem from the material inheritance of Abraham's land and wealth by Isaac and his descendants. It must be emphasized that all those considered among *Abram and his seed* stand to inherit Abraham's spiritual practice of *seven circuits around the sacred cube*. By mastering *Tardemah*, all descendants among "Abram and his seed" stand to inherit the Secret of Knowledge that empowers a purging of sin from the body and a liberation of the soul from its captivity within the body, from any geographical location in the world. We also know that gender plays no role in one's ability to master *Tardemah*, because Sarai became Sarah just as Abram became Abraham. The Book of Creation's opening mathematical riddles appear in the opening verses of the Book of Creation.

Book of Creation 1.1 – 1.2

With 32 mystical paths of Wisdom engraved Yah...He is lofty and holy

And creates His universe with three books (Sepharim),

with text (Sepher), with number (Sephar), and with sound (Sippur).

Ten Sefirot of Nothingness and 22 Foundation Letters:

Three Mothers, Seven Doubles, & Twelve Elementals.

This first passage states that creation was "engraved" with "32 mystical paths of Wisdom," while the second passage breaks these "32 mystical paths of Wisdom" into three "books," implying three layers of meaning: text, number, and sound. These "32 mystical paths of Wisdom" include the *Ten Sefirot of Nothingness* and *22 Foundation Letters* [of the Hebrew alphabet]. Finally, we are told that these *22 Foundation letters* break down into "*Three Mothers, Seven Doubles, and Twelve Elementals.*" Each component of these 32 Paths defines a separate mathematical riddle that can only be deciphered after solving the text's primary "231 Gates" riddle:

Book of Creation 2.5

How? He permuted them, weighed them, and transformed them,

Alef with them all and all of them with Alef, Bet with them all and all of them with Bet.

They repeat in a cycle and exist in 231 Gates.

It comes out that all that is formed and all that is spoken emanates from one Name.

The first line of Abraham's primary riddle implies that what God was "*permuting*" were numbers. He then "*weighed*" and compared them. This pairing takes the form of an integer ratio (a:b), which can also be written as a fraction (a/b). By pairing two numbers together in this manner, each pair is "*transformed*" into a musical tone generator. The world might be a much more peaceful place if the keepers of the faith understood how to pair integers together to construct Kabbalah's 231 Gates mathematical-musical table as the basis of Scripture. Within the Book of Creation, opening the metaphorical "Gates" defines each pair of integer ratios, revealing a sonic "Path" to God. In Figure 10, we begin this construction with the following instruction: "*Alef with them all and all of them with Alef.*" The phrase "*Alef with them all*" puts *Alef* = "1" into the numerator of each integer pair in the "X" axis. The next phrase "*...and all of them with Alef,*" describes the "Y" axis as the reciprocal of the "X" axis depicted in Figure 10. The "X" axis represents one of three types of mathematical progressions, namely a harmonic progression. Its reciprocal, the "Y" axis, defines a second type of progression: an arithmetic progression. Together, they depict a Cartesian-like graph with reciprocal "X" and "Y" axes. Modern science collapses these reciprocal harmonic and arithmetic progressions into what is known today as a harmonic series.

Abraham, like Isaac Newton, believed he understood the science of the rainbow. Both men believed that it defined the inner vibrational essence of all objects and beings in Creation. A rainbow depicts the "White Light of God" refracting through a raindrop or prism into its constituent colors. Isaac Newton's pioneering work famously identified the seven tones of a musical scale and linked them to the seven colors he observed in the visible spectrum of white light: red, orange, yellow, green, blue, indigo, and violet. Schoolchildren typically learn this using the acronym ROY G. BIV. Modern science, however, shows that there is a continuous, infinite spectrum of colors and sounds rather than just seven. The 10 sequential integers uttered by *Elohim* define a harmonic construct of six bands of color hidden within the "White Light of God." That is why the 7 candles on a Temple Menorah symbolize the 7 aspects of the animal soul: three colors on each side of the "White Light of God" at its center. Today's scientists also realize that indigo and violet are too close in wavelength to be considered separate color bands. However, Newton deferred to the theological importance of the number 7 as described in Newton's controversial, and therefore unpublished, theology papers.

In Genesis 1:1-5, God separated Light from Darkness on Day 1 of Creation. He separated the Light of God's 10

harmonic utterances from its 21 arithmetic reciprocals, with those reciprocals gradually descending into Darkness. We continue our “231 Gates” construction with the expression “*Bet with them all and all of them with Bet,*” which adds another harmonic row and column to the diagram. This continues until all 21 harmonic rows define 21 distinct harmonic progressions, gradually constricting God’s created “Light” as they extend downward into Darkness from God’s highest realm. *Yahweh*’s descent into created Darkness occurs within the 21st harmonic row of Figure 11.

The four-diagonal geometric “lines” in Figure 12 all originate from “The One” in the upper left-hand corner of the table, but they are not actually linear. They form two pyramidal constructs that reflect the mathematical foundations of ancient pyramids and ziggurats (Schatz, 2023). The first of these “lines” is formed from reciprocal integer ratios 2:3 and 3:2 that correspond to the reciprocal “twin serpents” defining the animal soul: (2:3, 4:6, 6:9 ...) and (3:2, 6:4, 9:6...). The second pyramidal construct is formed from reciprocal integer ratios 3:5 and 5:3 as the angelic wings of the Holy Spirit (3:5, 6:10...) and (5:3, 10:6...) that lifts the soul up to the rainbow Godhead. Figure 12 depicts this construct as a 3-dimensional image of “twin serpents” constructed from the primordial elements of Earth and Water within the Caduceus (Figure 6). The outer pyramid of Figure 12 embodies “angelic wings” growing on the Tree of Life and incorporates them, creating a Divine Messenger.

Harmonic Progression →	
Arithmetic Progression ↓	1/1 1/2 1/3 1/4 1/5 1/6 1/7 1/8 1/9 1/10 1/20 LIGHT
	2/1 Alef with them all ...
	3/1
	4/1
	5/1
	6/1
	7/1
	8/1
	9/1
	10/1 ...and all of them with Alef
	20/1
	30/1
	40/1
	50/1
	60/1
	70/1
	80/1
	90/1
	100/1
	200/1
	300/1
	DARKNESS

Figure 10. This division of the waters above from the waters below was allegorized in Genesis 1:6-7 and became the mathematical template for the parting of the Red Sea (Exodus 14:21-22).

HARMONIC PROGRESSION =====>											
1:1=d	1:2=d	1:3=a	1:4=d	1:5=f#	1:6=a	1:7=c	1:8=d	1:9=e	1:10=f#	1:20=f#	
2:1=d	2:2=d	2:3=a	2:4=d	2:5=f#	2:6=a	2:7=c	2:8=d	2:9=e	2:10=f#	2:20=f#	
3:1=g	3:2=g	3:3=d	3:4=g	3:5=b	3:6=d	3:7=f	3:8=g	3:9=a	3:10=b	3:20=b	
4:1=d	4:2=d	4:3=a	4:4=d	4:5=f#	4:6=a	4:7=c	4:8=d	4:9=e	4:10=f#	4:20=f#	
5:1=b	5:2=b	5:3=f	5:4=b	5:5=d	5:6=f	5:7=a	5:8=b	5:9=a	5:10=d	5:20=d	
6:1=g	6:2=g	6:3=d	6:4=g	6:5=b	6:6=d	6:7=f	6:8=g	6:9=a	6:10=b	6:20=b	
7:1=e	7:2=e	7:3=b	7:4=e	7:5=g#	7:6=b	7:7=d	7:8=e	7:9=f#	7:10=g#	7:20=g#	
8:1=d	8:2=d	8:3=a	8:4=d	8:5=f#	8:6=a	8:7=c	8:8=d	8:9=e	8:10=f#	8:20=f#	
9:1=c	9:2=c	9:3=g	9:4=c	9:5=e	9:6=g	9:7=b	9:8=c	9:9=d	9:10=e	9:20=e	
10:1=b	10:2=b	10:3=f	10:4=b	10:5=d	10:6=f	10:7=a	10:8=b	10:9=c	10:10=d	10:20=d	
20:1=b	20:2=b	20:3=f	20:4=b	20:5=d	20:6=f	20:7=a	20:8=b	20:9=c	20:10=d	20:20=d	
30:1=e	30:2=e	30:3=b	30:4=e	30:5=g	30:6=b	30:7=d	30:8=e	30:9=f	30:10=g	30:20=g	
40:1=b	40:2=b	40:3=f	40:4=b	40:5=d	40:6=f	40:7=a	40:8=b	40:9=c	40:10=d	40:20=d	
50:1=g	50:2=g	50:3=d	50:4=g	50:5=b	50:6=d	50:7=f	50:8=g	50:9=a	50:10=b	50:20=b	
60:1=e	60:2=e	60:3=b	60:4=e	60:5=g	60:6=b	60:7=d	60:8=e	60:9=f	60:10=g	60:20=g	
70:1=c	70:2=c	70:3=g	70:4=c	70:5=e	70:6=g	70:7=b	70:8=c	70:9=d	70:10=e	70:20=e	
80:1=b	80:2=b	80:3=f	80:4=b	80:5=d	80:6=f	80:7=a	80:8=b	80:9=c	80:10=d	80:20=d	
90:1=a	90:2=a	90:3=g	90:4=a	90:5=c	90:6=e	90:7=g	90:8=a	90:9=b	90:10=c	90:20=c	
100:1=g	100:2=g	100:3=d	100:4=g	100:5=b	100:6=d	100:7=f	100:8=g	100:9=a	100:10=b	100:20=b	
200:1=g	200:2=g	200:3=d	200:4=g	200:5=b	200:6=d	200:7=f	200:8=g	200:9=a	200:10=b	200:20=b	
300:1=c	300:2=c	300:3=g	300:4=c	300:5=e	300:6=g	300:7=b	300:8=c	300:9=d	300:10=e	300:20=e	

Figure 11. ⁷And Elohim made the expanse, and it separated between the water that was below the expanse and the water that was above the expanse, and it was so. ⁸And God called the expanse Heaven, and it was evening, and it was morning, a second day” -- Genesis 1:6-8.

HARMONIC PROGRESSION =====>											
1/1	1/2	1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	1/20	
2/1	2/2	2/3	2/4	2/5	2/6	2/7	2/8	2/9	2/10	2/20	
3/1	3/2	3/3	3/4	3/5	3/6	3/7	3/8	3/9	3/10	3/20	
4/1	4/2	4/3	4/4	4/5	4/6	4/7	4/8	4/9	4/10	4/20	
5/1	5/2	5/3	5/4	5/5	5/6	5/7	5/8	5/9	5/10	5/20	
6/1	6/2	6/3	6/4	6/5	6/6	6/7	6/8	6/9	6/10	6/20	
7/1	7/2	7/3	7/4	7/5	7/6	7/7	7/8	7/9	7/10	7/20	
8/1	8/2	8/3	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/20	
9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8	9/9	9/10	9/20	
10/1	10/2	10/3	10/4	10/5	10/6	10/7	10/8	10/9	10/10	10/20	
20/1	20/2	20/3	20/4	20/5	20/6	20/7	20/8	20/9	20/10	20/20	
30/1	30/2	30/3	30/4	30/5	30/6	30/7	30/8	30/9	30/10	30/20	
40/1	40/2	40/3	40/4	40/5	40/6	40/7	40/8	40/9	40/10	40/20	
50/1	50/2	50/3	50/4	50/5	50/6	50/7	50/8	50/9	50/10	50/20	
60/1	60/2	60/3	60/4	60/5	60/6	60/7	60/8	60/9	60/10	60/20	
70/1	70/2	70/3	70/4	70/5	70/6	70/7	70/8	70/9	70/10	70/20	
80/1	80/2	80/3	80/4	80/5	80/6	80/7	80/8	80/9	80/10	80/20	
90/1	90/2	90/3	90/4	90/5	90/6	90/7	90/8	90/9	90/10	90/20	
100/1	100/2	100/3	100/4	100/5	100/6	100/7	100/8	100/9	100/10	100/20	
200/1	200/2	200/3	200/4	200/5	200/6	200/7	200/8	200/9	200/10	200/20	
300/1	300/2	300/3	300/4	300/5	300/6	300/7	300/8	300/9	300/10	300/20	

Figure 12. The “231 Gates” table defines God as the Source of Creation in the upper-left corner as history’s first “Theory of Everything,” the vibrational essence of creation

Ancient mathematicians were able to analyze which type of progression was at play by devising different “means” or average values for pairs of numbers that form integer ratios. For example, an arithmetic mean is what most of us think of as the “average” value between two numbers. The arithmetic mean of two numbers, a and b,

is $(a + b)/2$. An arithmetic mean preserves the distance between numbers. The arithmetic mean of 10 and 20 is 15, and the distance between 10 and 15 on a number line is the same as the distance between 15 and 20. An arithmetic progression of more than two numbers will always have equal increments, e.g., 2, 4, 6, 8, 10,... because arithmetic progressions increase by a fixed amount.

The harmonic mean of two numbers, a and b , is twice the product divided by the sum, or $2ab/(a + b)$. For example, the harmonic mean of 6 and 12 is $(2 \times 6 \times 12)/(6 + 12) = 144/18 = 8$. This is equivalent to multiplying the two numbers and dividing by their arithmetic mean, as illustrated by $6 \times 12 = 72$. We then divide that product by the arithmetic mean of 6 and 12, which is 9, giving a harmonic mean of 8. Each harmonic row emanates divine light and sound, and each new row moves farther away from the highest realm of God's "X" axis of Light. Each successive row of constricted Light is indexed by the next sequential integer ratio in the "Y" axis. When all 21 rows are complete, the Goodness of God's Light will have contracted into Darkness and Evil. Rabbi Isaac Luria verbally describes this constriction of divine light as *Tzimtzum*.

A third type of mathematical progression combines a series of geometric means. The geometric mean preserves ratios rather than distances. The geometric mean of two numbers, a and b , is the square root of their product. For example, the geometric mean of 5 and 20 is the square root of $5 \times 20 = \sqrt{100} = 10$. Look at the sequence of numbers 5, 10, 20. Notice that the ratios, 5:10 and 10:20, are equal. The geometric mean is always defined by a common ratio. It bears repeating that the four primordial elements correspond to a special case of geometric progression created from a common ratio of equal intervals, e.g., Earth ($2^0, 2^1, 2^2, 2^3, \dots$); Water ($3^0, 3^1, 3^2, 3^3, \dots$); Wind ($5^0, 5^1, 5^2, 5^3, \dots$), Fire ($7^0, 7^1, 7^2, 7^3, \dots$).

Proverbs 19:15- Sixth Occurrence of Tardemah

"Laziness causes one to fall into a deep sleep, and a deceitful soul shall suffer hunger."

The word *Tanakh* is an acronym for the Hebrew Bible, comprising three distinct "Books": *Torah* (Laws), *Nevi'im* (Prophets), and *Ketuvim* (Writings). Psalms, Proverbs, and Job are part of the *Ketuvim* (Writings). A proverb is a traditional saying based on a perceived truth. Proverbs 1 sets the tone for all Scripture by advising readers not to take the Bible too literally. Proverbs 1 is attributed to Solomon and is regarded as a testament to his great wisdom, teaching that Biblical wisdom is hidden within the text's many allegories. Once those allegories are deciphered, the reader will discover that Old Babylonian number theory and acoustics articulates religious metaphysics by explaining the Kabbalistic mysteries of God and Creation. The Bible's "eternal truth" (Psalms 119:142, 144, 160) has been hidden within Abraham's mathematical allegories for more than 2600 years. The mathematics and science of vibration provide a much-needed insight into the three Abrahamic faiths. This explains the rabbinic tradition that Abraham knew the Torah seven generations before Moses wrote it. Without the benefit of Abraham's mathematical teachings, the world has been lulled into a *deep sleep and suffers the deceit of a hungry soul*.

The revelation of Abraham's teachings provides the only possible antidote capable of mediating the false truths of dogmatic exclusivity that exist within Judaism, Christianity, and Islam. Each of these three faiths follows a different prophet, and each has its own expectations for the return of one, and only one, "Anointed" savior. Since Moses knew Abraham's mathematics, it is possible, if not likely, that Moses created Torah stories of sibling rivalry as solvable challenges to initiate critical thinking. Unfortunately, without the benefit of Abraham's teaching, solutions to the ancient rivalries of Jews, Christians, and Muslims have remained largely out of reach for the last 2600 years. Few realize that a spiritual common ground established by Abraham exists and only needs to be recovered and assimilated.

Judaism's exclusivity revolves around a philosophy developed by the rabbinical community that "*builds a fence around the Torah*" (Hebrew transliteration: *asu s'yag latorah*). This philosophy was written into the Jewish Talmud to preserve Jewish beliefs. As a result, Judaism has evolved into a culture of exclusivity and protectionism justified by the need to survive in a hostile world. For the most part, there is little or no interest within the rabbinical community to learn the culture, the beliefs, or to read the holy books of their Semitic brothers. Christians and Muslims have simply been written off as latecomers to Abrahamic monotheism.

Christian exclusivity implies a special knowledge of God (*Gnosis*), as reflected in John 8:58, where Jesus addresses a group: "*Truly, truly, I say to you, before Abraham was, I AM.*" This is a critical theological statement where Jesus asserts his pre-existence and divine identity, claiming to be the eternal "*I AM*" (Hebrew: *אֶהְיֶה*; transliteration: *Ehyeh*), who revealed Himself to Moses in Exodus 3:14. In other words, the Gnostic Gospel of John cites Exodus 3:14, suggesting that Jesus is the Lord God Himself.

God said to Moses, "Ehyeh asher ehyeh (Hebrew: אֶהְיֶה אֲשֶׁר אֶהְיֶה; English: I AM who I AM)," and He said, "So shall you say to the children of Israel, 'Ehyeh (I AM) has sent me to you.'"

Abraham's teachings reveal that the "pronunciation" of יהוה was never intended to be a verbal one. God's holiest name defines a mathematical instruction set that was intended to teach Biblical High Priests, Prophets, and Anointed Kings how to enter and master *Tardemah's* trance state of altered consciousness. Before the destruction of Solomon's Temple, High Priests who knew and understood Abraham's teachings would have entered this altered state of consciousness to purify their bodies and liberate their souls. Their liberated soul would then pass through the veil of palms and pomegranates that separated their physical body from the Holy of Holies on the Day of Atonement. Once their disembodied soul passed through the symbolic "veil" between life and death, they would enter the Holy of Holies to say a prayer, infinitely amplified by the power of *Tardemah*, for the people of Israel to be inscribed into the Book of Life for another year.

Abraham's transformative practice was unknown during the First Ecumenical Council in 325 CE, when the Bishops of Nicaea condemned Arius for his belief that Jesus was somehow transformed from a common man into a "Son of God" (Hebrew: *Bene Elohim*). Once the 231 Gates table is deciphered from the Book of Creation, the lost Kabbalistic mathematics of God's three holiest names could be revealed. That revelation, as espoused in this article, will hopefully shed new light on the notion that Deacon Arius was not a heretic after all. He appears to have been correct in his belief that Jesus needed to master a sacred practice (*Tardemah*) to purify his body and liberate his soul. This article already explained that the English translation of *Ehyeh* is considerably more complex and meaningful than "I AM."

Islamic exclusivity is rooted in a different mindset. Although this author is convinced that Muhammad, like Jesus, was indeed a prophet in the Biblical sense, Muslims believe that Muhammad was the "Seal of the Prophets" (Quran 33:40). This implies that no new prophets were possible after Muhammad's death. One can only hope that Abraham's teachings about *Tardemah* can help mitigate the world's unrealistic and magical expectations for the coming of one or more *Anointed Ones*. Only then could new prophets acquire the divine gifts of wisdom, prophecy, and healing. The word Messiah derives from the Romanized version of the Hebrew word *Moshiach* (English: "Anointed One"; Greek: *Christos*). Abraham's teachings about *Tardemah* imply that new Prophets in the Biblical tradition are likely to appear once Abraham's teachings can be recovered and assimilated. If the author has indeed recovered these Abrahamic revelations, they must still be assimilated by clergy and all children of Abraham if there is to be peace. The Quran mentions the "Scrolls of Abraham" among Islam's religious scriptures, but they are believed to have been lost or destroyed. The Book of Creation is not a Jewish text. It belongs to all three Abrahamic faiths. Muhammad himself would have found it difficult to imagine that the "Scrolls of Abraham" would one day be discovered, deciphered, and authenticated (Schatz, 2007: pp. 21-40; Schatz, 2024).

According to Maimonides' "Guide for the Perplexed," the ancient sages were convinced that the *Secrets of the Torah* could be recovered from the Greek Pythagorean tradition better known as the *Music of the Spheres* (Maimonides, 2007: V2, Chapter VIII, p. 163). However, once the 231 Gates table was lost to posterity in 586 BCE, not even the great physician and philosopher Maimonides (1135 – 1204 CE) could understand how the Book of Creation linked the *Music of the Spheres* to what the ancient sages called the *Secrets of the Law*. Plato's Abrahamic/Pythagorean metaphysics tied the microcosm of the soul to the macrocosm of the cosmos, but knowledge of Abraham's 231 Gates was lost roughly 16 years before Pythagoras was born in 570 BCE. Plato somehow incorporated the 231 Gates of mathematics into his metaphysics and philosophical writings, but Maimonides was never able to decipher that metaphysics. What remained of the Music of the Spheres was not sufficiently logical for either Aristotle or Maimonides to accept. Maimonides, therefore, acknowledged Judaism's loss of that metaphysics and, as a result, he steered the Jewish people away from Abrahamic/Pythagorean/Platonic mathematics and metaphysics and toward a study of the Talmud, much to the detriment of Kabbalistic knowledge. Maimonides assumed that Judaism's significant loss of metaphysical secrets must have been the result of a "cultural norm that restricted its most precious knowledge to a learned few" (Maimonides, 2007: V1, Chapter LXXI, p. 108; Schatz, 2024). Although this was certainly true, the mathematical framework of Plato's Dialogues, like Abraham's Book of Creation, was simply too difficult for most to understand. The Talmud is certainly a significant Jewish document based on scholarly commentary and debate about the Torah and its Laws. However, it is not comparable to Judaism's Kabbalistic understanding of the Abrahamic mathematical template that shapes and structures the entire *Tanakh*.

Today's world remains in a *lazy*, deep sleep, even though the scholar Boethius attempted to communicate knowledge of Pythagoras, Plato, and Aristotle to the early Church fathers during the Early Middle Ages (ca. 5th c. CE). Boethius's efforts helped spread knowledge of ancient Greek philosophy during the Dark Ages. However, once the Pythagorean tradition evolved into the *Music of the Spheres* as Seven Liberal Arts, there was a strong belief that this knowledge would provide an "open sesame" to many ancient religious and philosophical "wisdom texts." However, because knowledge of the 231 Gates was lost after 586 BCE, only the most brilliant Renaissance minds could intuit the basics of integrating the Quadrivium's mathematical disciplines.

Isaiah 29:10 - Seventh Occurrence of Tardemah

“For the Lord has poured upon you a spirit of deep sleep, and He has closed your eyes; the prophets and your heads who stargaze, He has covered.”

After Solomon’s reign, the 10 tribes within the Northern Kingdom of Israel split from the Southern Kingdom of Judah. Both the Northern and Southern Kingdoms often turned to idolatry, rejecting the worship of *Yahweh*. This led to the spiritual decline of both kingdoms. The 8th-century prophet Isaiah warned leaders of both Kingdoms that God’s judgment would bring retribution for their sins. In Isaiah 29:10, he criticized the leaders and alleged prophets of Israel and Judah for their blindness to God’s will. As Isaiah prophesied, in 722 BCE, Assyria destroyed the Northern Kingdom and deported its people, dispersing them throughout the Assyrian empire. Isaiah’s prophecy about the Southern Kingdom came to pass in 586 BCE, more than a century after Isaiah passed. His prophecy was fulfilled when the Neo-Babylonian King Nebuchadnezzar besieged Jerusalem and deported many of its inhabitants, marking the beginning of the Babylonian Captivity. The kidnapping and murder of Seraiah marked the end of the lineage of prophets that began when Moses taught his brother Aaron all that he learned on Mount Sinai. There were 16 major and minor prophets in the Book of the Prophets (Hebrew: *Nevi'im*), who were educated in this Abrahamic/Mosaic tradition. To become Biblical prophets, they would have had to master *Tardemah*’s trance meditation practice over the course of their lifetimes to transform themselves into Anointed Ones. Each would then be blessed with the divine gifts of wisdom, prophecy, and healing. After Seraiah’s death, there would no longer be an intermediary between God and the Jewish people. Ever since that time, the Jewish people have considered themselves in exile from God and from Zion (the Biblical name for Jerusalem as the “Kingdom of Heaven,” i.e., the “Promised Land”). The Jewish people are still waiting for an Anointed One to explain the three holiest names of God as the key to Scripture that would empower them to lead the entire diaspora of Abraham’s descendants back to God and the Promised Land of Zion. This great loss of Abraham’s teachings has been devastating for civilization, short-circuiting the most famous prophecy of Isaiah 2:4:

“And He shall judge between the nations and reprove many peoples, and they shall beat their swords into plowshares and their spears into pruning hooks; nations shall not lift the sword against nation, neither shall they learn war anymore.”

Of course, a great deal of history has transpired since Abraham’s Secret of Knowledge was lost. A great deal of dogmatic exclusivity and hatred persists among the three Abrahamic faiths, making day-to-day life in the Middle East, and all over the world, difficult and dangerous. The politics of modern Zionism has resulted in a secular and independent Jewish state that resonates with Judaism’s philosophy to “*build a fence around the Torah*.” Theodor Herzl officially founded Zionism at the First Zionist Congress in 1897. It was born out of the desire for an independent Jewish state that could protect Jews from European nationalism and rising anti-Semitism. Although securing the safety of the Jewish people has always been an important consideration among ultra-Orthodox Haredi sects, like the Satmar and Lubavitch, those sects are afraid that establishing a secular political state of Israel would eventually lead to an abandonment of the Torah. The last three leaders of the Lubavitch Chasidic movement: Rebbe Shalom Dovber Schneerson, Rebbe Yosef Yitzchak Schneerson, and Rebbe Menachem Mendal Schneerson, were all prominent voices in the Ultra-Orthodox Haredi opposition to Zionism because they realized what most others Jews forgot or never learned; that declaring a secular Jewish homeland would not end the Jewish people’s spiritual exile from God and from Zion that began with the death of Seraiah more than 2600 years ago. Haredi sects believed that any Jewish state created by a secular government was not the true messianic redemption promised in the Jewish tradition. Even though he died in 1994, many within the Lubavitch sect still maintain that Rebbe Menachem Schneerson is the anticipated “Anointed One.” Schneerson was the “seventh son of the seventh son” with no heirs. Although he never claimed this title, he allowed that belief to flourish. This author’s life changed after the Rebbe read and approved of his first paper on the Book of Creation during the early 1980’s. (Note 4) Except for the various Haredi sects, most Jews never learned that the destruction of Solomon’s Temple resulted in the Jewish people’s exile from God and from Zion. This aspect of Jewish history became central to the philosophy of the Freemasons, a secret society that has long followed the Kabbalistic tradition. In the following passage, recovering the “pronunciation” of God’s “Great Word” [יהוה: *Yahweh* or *Jehovah*] is said to be the “*inheritance of Zion*” that is prophesied to free the Jewish people from their exile.

*From year to year no longer did the High Priest pass behind the veil and pronounce the Great Word [יהוה, *Yahweh* or *Jehovah*] on the other side of the curtain of palms and pomegranates. It came about in the course of the centuries that the true way of its pronunciation passed even from the memory of the elders. Therefore “until time and circumstances should restore the genuine,” they continued to do of necessity... the substitution of Adonai for Jehovah...the Tradition with its whole heart looks for that day to come when Israel shall be taken out of exile and the palladium of the elect people shall be declared in the hearing of all*

who have come out of great tribulation into the inheritance of Zion.

(Waite, 1970, pp. 416-418)

This author's unique preparation in Pythagorean studies with Dr. Ernest McClain in the early 1970's paved the way for more than a year of studies at a Chasidic Lubavitch Yeshiva in the mid-1970's. As a direct result of these studies, the author has deciphered the Abrahamic *Sefer Yetzirah's* 231 Gates table as the underlying mathematical framework of the Hebrew Bible. This ancient table also documents the prehistoric origins of number theory and acoustics (Schatz, 2023), as well as the lost meaning and "pronunciation" of God's holiest name, יהוה, that points the way for all children of Abraham to return to the spiritual high ground of the Promised Land.

In 1917, Britain's Balfour Declaration declared its support for creating a "national home for the Jewish people" in Palestine. The League of Nations then granted Britain a mandate over Palestine, which it held from 1920 to 1948. In 1947, the UN General Assembly proposed partitioning Palestine into separate Arab and Jewish states. This plan was accepted by Jewish leaders but was rejected by Arab leaders. On May 14, 1948, as the British Mandate expired, David Ben-Gurion announced the establishment of a secular State of Israel. This immediately triggered the first of many wars between Israel and the Arab states. The non-Zionist Haredi tradition is rooted in the belief that an Anointed One to point the way back to Zion by mastering Tardemah's trance state. Although many non-Jews expressing Anti-Zionist ideas might be considered antisemites, the Jewish Haredi sects would be more appropriately labeled as non-Zionists rather than anti-Zionists, since they certainly care about the safety of the Jewish people. The current Israeli government has demonstrated that its political decisions are based on secular considerations and short-term political peace initiatives rather than on achieving the spiritual goal of returning those in exile to God by learning to master *Tardemah*.

3. Conclusion

The Greek word Mesopotamia (Greek: *between two rivers*) refers to the "Cradle of Civilization" located between the Tigris and Euphrates rivers. Most modern scholars are convinced that the 4th-millennium Sumerians of Mesopotamia invented religion, writing, mathematics, and music. This text maintains that scholars must dig deeper into the historical record if they hope to uncover the elusive, and perhaps eternal, truth. A lifetime of research into the underlying mathematical framework of religion suggests that the demarcation line between historic and pre-historic needs to be redrawn thousands of years earlier than most scholars believe. For example, those knowledgeable about the history of mathematics believe that the Ishango Bone, discovered in the East African Mountains during the last Ice Age (ca. 24,000 - 20,000 BCE), documents history's earliest record of number theory, arithmetic, prime numbers, and different numeral systems, including Base 60 and Base 12. If so, then civilization's knowledge of prime numbers might also suggest a familiarity with the lunar calendar, as well as a relationship between integer ratios and musical intervals; knowledge important to the creation of musical instruments. The author's research suggests that the mathematics of the Ishango Bone is associated with the Biblical *Nephilim* ("Heroes of Old," or "Men of Renown"), who are considered the first Biblical "Sons of God" (Hebrew: *Bene Elohim*). In earlier writings (Schatz, 2022; Schatz, 2023), the author attempted to trace the evolution of *Nephilim* mathematics into two 10th millennium BCE Luwian hieroglyphic logograms carved into the "Pillars of Enoch" at *Göbekli Tepe* (ca. 9,600 BCE). These two hieroglyphic symbols correspond to history's oldest words for "God" and "Gate." They were carved into stone pillars within this Neolithic site in southern Turkey. After deciphering the Book of Creation's "231 Gates," the author was also able to track the evolution of that mathematics from Ethiopia to Canaan, to Mesopotamia, India, and Egypt. The reader has been provided with an underlying mathematical framework that models the Biblical stories of holy men, such as the *Nephilim*, Enoch, Noah, Abraham, and Moses, as well as the relevance of *Tardemah* to our own daily lives.

This article also enumerates the seven occurrences of the word *Tardemah*, contextualized within Biblical allegory and symbolism. Biblical text and images have been woven around Abraham's mathematics in terms of sonic theology. Religion finally has a mathematical and scientific perspective to fend off the attacks of presumptuous scientists and atheists who are convinced that religion is based on little more than superstition. Ecclesiastes 1:9 tells us that "*there is nothing new under the sun.*" It would indeed be something new if it could be demonstrated that Abraham's "Secret of Knowledge" reveals the mathematics and methodology of "trance" meditation, capable of transforming the children of Abraham into righteous, holy beings blessed with the "divine gifts" of wisdom, prophecy, and healing. Abraham's transformative practice was also unknown during the First Ecumenical Council in 325 CE, when the Bishops of Nicaea condemned Arius for his belief that Jesus was transformed by a sacred practice into a "Son of God" (Hebrew: *Bene Elohim*). Despite Islam's belief in Muhammad as the *Seal of the Prophets*, humanity's best hope for the future depends on a new generation of "Anointed Ones" who establish and sustain peace in the world by learning and mastering Abraham's spiritual and mathematical teachings. Abraham's Secret of Knowledge defines the most profound common ground among

the three Abrahamic faiths, and appears to function as the Rosetta Stone for many religions. In Christianity's Book of the Apocalypse, the Greek word "Apocalypse" is often misinterpreted as the self-fulfilling prophecy of nuclear Armageddon, but its literal meaning is "Revelation." The "Revelation" presented in this paper unmasks Abraham's "Secret of Knowledge," which requires the mastery of *Tardemah* as a *trance* meditation practice to realize Exodus 40:15: "And so it shall be that their anointment shall be for them an eternal priesthood for their generations."

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Notes

Note 1. This is corroborated by the Talmud, in the *Gemara* tractate *Chagigah* (12a), which states: “*Ten things were created on the first day of Creation.*” While the *Mishnah* tractate *Pirke Avot* (Ethics of the Fathers), states: “*The world was created with ten utterances.*”

Note 2. The story of Jubal and Jabal leads us to the story of Moses' "Tent-of-Meeting" as an integration of harmonics and geometry. God hovered outside the opening of Moses' Tent-of-Meeting. “*Then the Lord would speak to Moses face to face, as a man would speak to his companion...*” (Exodus 33:11). Moses' Tent-of-Meeting was also referred to as the Tabernacle (Hebrew transliteration: *Mishkan*) that traveled with him in the desert. The Tabernacle became the sacred cube of Islam's "Ka'bah," Christianity's "New Jerusalem," Judaism's "Chuppa" during wedding ceremonies, and a "Sukkah" during Sukkot (the Feast of Tabernacles). The 12 edges of any cube symbolize what the Book of Creation refers to as the 12 Directors of the Soul. Taoism, like Hinduism and Buddhism, appears to be greatly influenced by Abraham's teachings. The Book of Creation's “12 Directors of the Soul” might best be equated with the 12 organ meridians that carry divine light to purify and heal the body.

Note 3. Defining this divine substance was a problem left to the First Ecumenical Council of the Christian Church in 325 CE. The term *homoousian* was used in the Nicene Creed describing Jesus (God the Son) as “same in being” or “same in essence” as God the Father. The Bishops of Nicaea defined the Holy Trinity of Father, Son, and Holy Ghost as three co-equals in eternity created from the same essential substance. However, without the benefit of Abraham's teachings, the three Abrahamic faiths should not even venture a guess at the nature of the Holy Trinity's common substance. The loss of Abraham's teachings has changed the course of history; perhaps recovering those teachings will return it to the Bible's prophetic message of peace, so that “*nations shall not lift the sword against nation, neither shall they learn war anymore.*”

Note 4. Rebbe Menachem Mendel Schneerson, the seventh Lubavitcher Rebbe, is still believed by many followers to be the Messiah. The author spent time auditing courses in the Torah, Talmud, and a Kabbalistic text known as the Tanya at Hadar Hatorah, a Lubavitch Yeshiva, where the author first learned that *Sefer Yetzirah* was considered Kabbalah's most authoritative Abrahamic text. That discovery changed the course of my life. After many years attempting to decipher and authenticate this “Abrahamic” text, the author completed his first paper on the subject in the early 1980's. The paper was submitted to Rabbi Nissan Mangel, PhD, one of the Rebbe's four handpicked translators of their main Kabbalistic text, known as the Tanya. Rabbi Mangel called me to his home in Crown Heights and told me that all my numbers looked right and, furthermore, he wanted the Rebbe to “see this paper immediately.” Not long after submitting my paper to the Rebbe, another of Tanya's four translators, Rabbi Zalman Posner, PhD, lectured the Hadar Hatorah students and recounted the Rebbe's comments from a recent spiritual gathering (Hebrew: *Farbrengen*), which coincidentally, the author also attended. Rabbi Posner was known for his expertise on the “wise men of Athens.” He told our class that the Rebbe had praised the efforts of someone in the congregation who was tightly coupling the “Music of the Spheres” to the “Secrets of the Law.” The author immediately realized that the Rebbe had read and approved of my paper. That acknowledgment changed the course of my life. Since that time, the author has made considerable progress, with only one regret: that the Rebbe, who passed in 1994, would be unable to read the author's most recent papers.

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