The Mars Pentad Time Pyramids: Part II

The Mayan Dresden Codex [702] Solved, The Pyramid Mile, The Aztec [378],
Ancient Egyptian Phi and Pi derived from the Saqqara Pyramid of Queen Sesheshet,
Preliminary analysis of the Leedskalnin universal number mystery,
The Teotihuacan Grids, The sidereal and [378] synod of Saturn, and the sidereal of Planet X

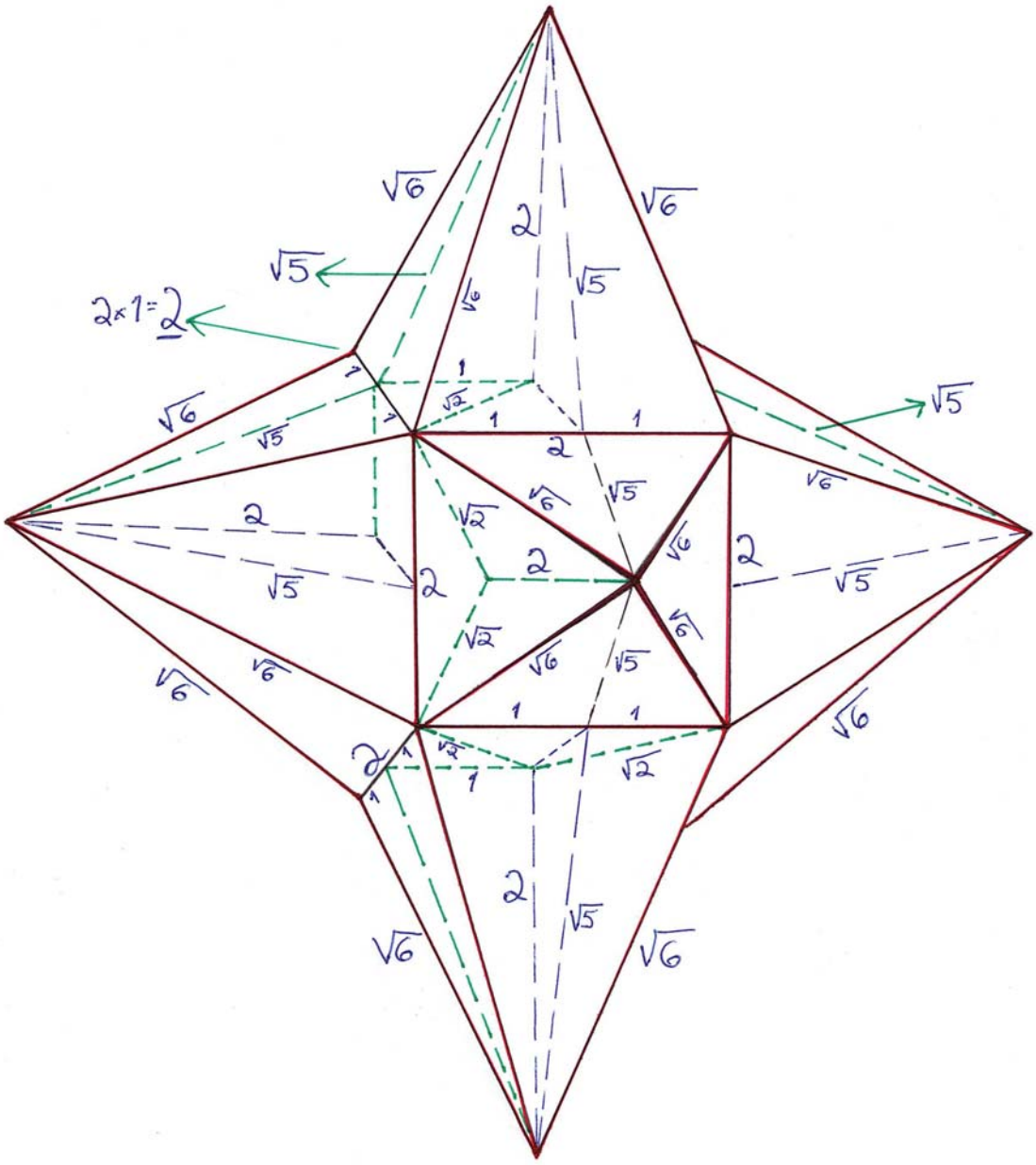
Vic Showell {C} November 2008

Highly suggested reference links to aid the reader in this document: The Dresden Codex Mars [702]:

http://www.sciencenews.org/articles/20010310/mathtrek.asp
http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=29390
Dr. Horace Crater's Mars Pentad study
Mounds of Cydonia, Case Study for Planetary SETI
http://www.scribd.com/word/download/91742?extension=doc

NOTE: Numbers as such: [0 .83333~] or [4333 .3333~], is meant that the decimal goes to infinity, or in numbers that have irrelevant decimal endings after a certain point such as true Pi = [3. 141562654~]. Ancient Pi has a repeating decimal sequence [3. **142857** ~].

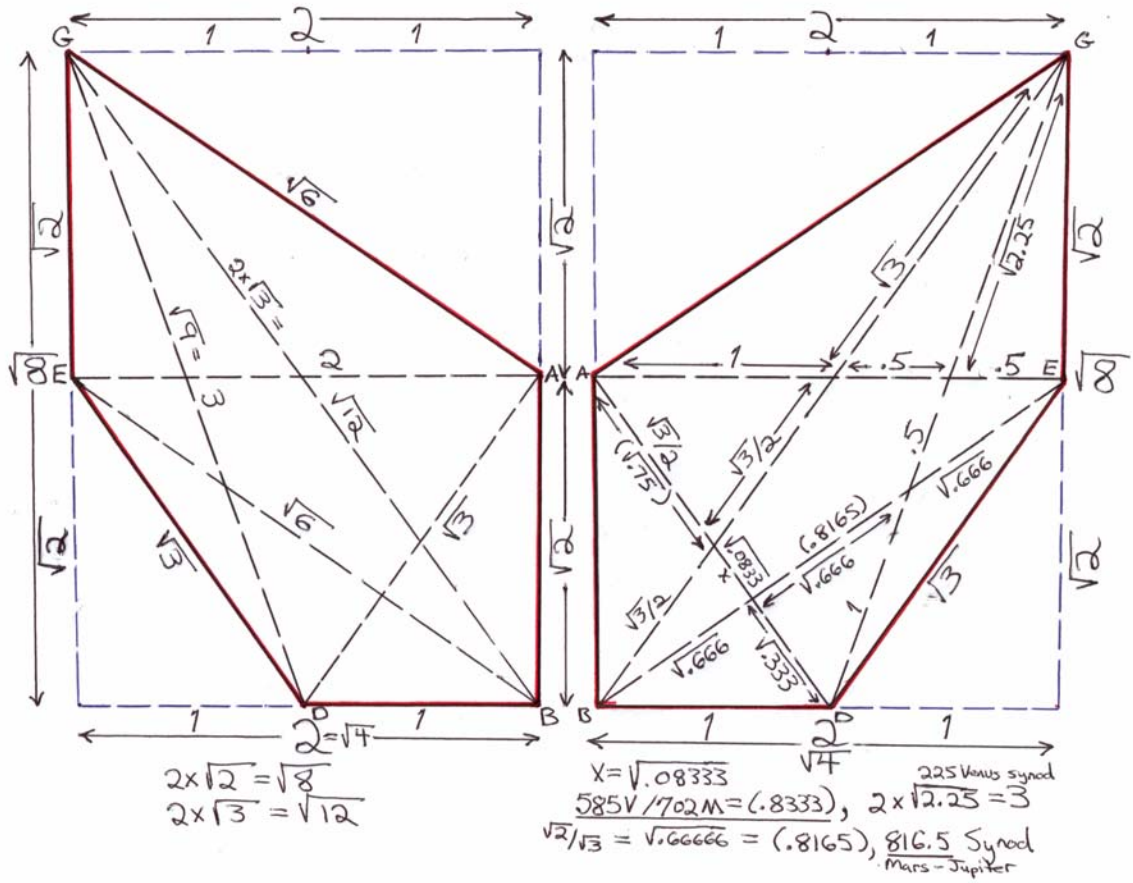
Platonic Solid Crystallization derived from Mars Pentad with the 2x2x2 Time Pyramid



The above geometry takes the Mars Pentad tetrahedral angles from the [1 by sqrt2] triangle
with hypotenuse sqrt[3], and the [2 by sqrt2] triangle with hypotenuse sqrt[6],
and replicates them as the Side Angles of the [2by2by2] Pyramids attached to the [2by2by2] cube.
The interior of the [2 by 2 by 2] Cube, is 4 packed pyramids that are [2 by 2 by 1 unit high],
which have [4] tetrahedral Side Angles.

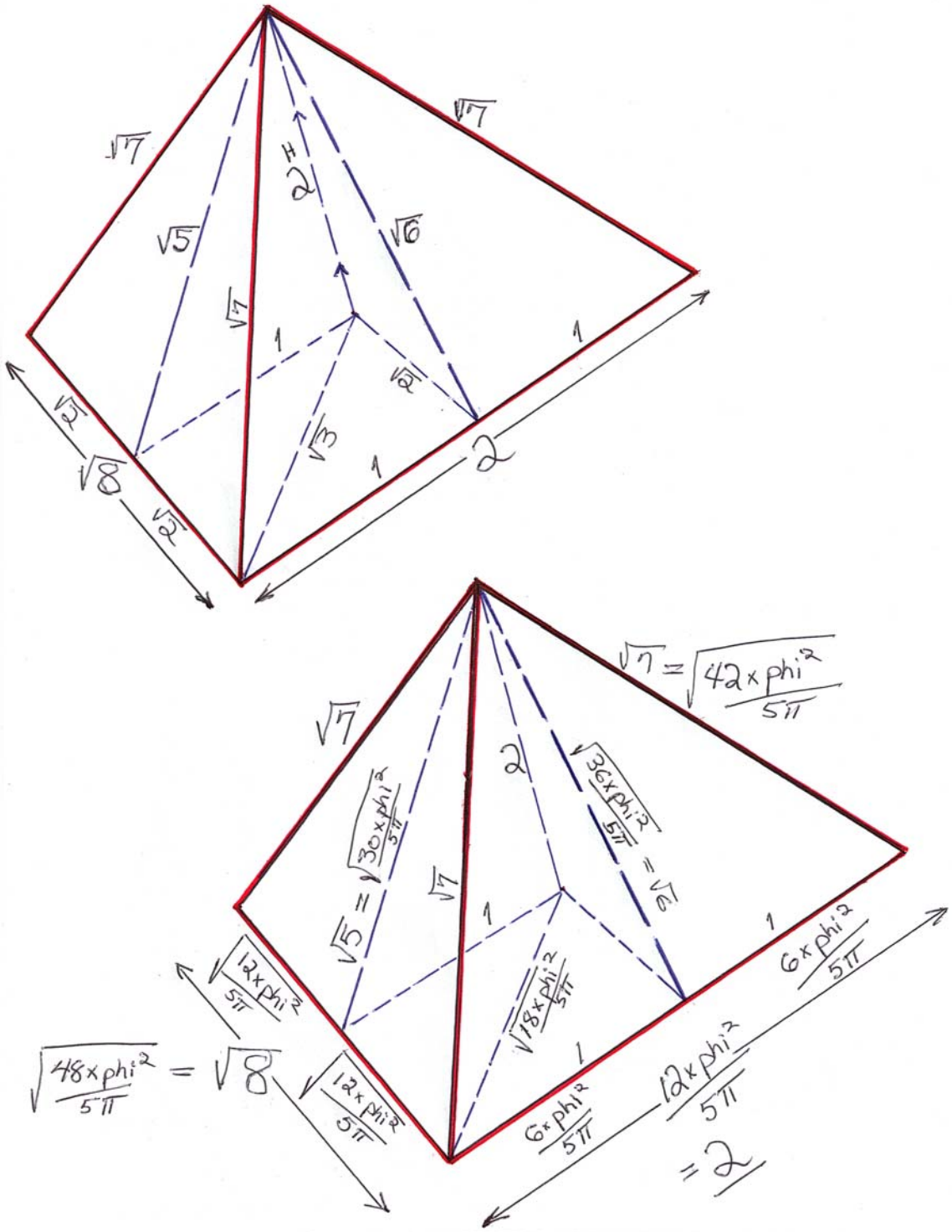
The Side Face angles of the [6] attached pyramids to the cube are the Pentad [26.5] degree angles,
that are formed from the triangle [1 by 2] with hypotenuse sqrt[5].
The Side Face triangles of the cubic interior packed pyramids are all [45] degree angles.

The Mars Pentad tetrahedral grid is constructed by the placements of the Five Mounds [E, A, B, D, G] in Cydonia on Mars. This creates two stacked Square Root Two Rectangles with tetrahedral geometry.
The actual grid is on the left with rectangle dimensions [2] by sqrt [8].
The reflective symmetry shown allows me to show interior lengths
of cross sections made by the interior dotted line Star form.
Note that the smallest length possible is Sqrt [0.083333~],
And this value of numeric set [833333], gives these equations:
[585] Venus synod / by [702] Dresden Codex Mars count = [0 .833333] = [Phi sq. / by Pi].
Note that if you flip this diagram upwards along the top horizontal axis,
the Pentad Octagon and resultant replicating Pentad Octagon Tile grid is formed!



The Venus synod as [**585**] days is explained in the first Mars Pentad Time Pyramids pdf, and later here, and this is part of the Tetrahedral Calendar Count as the [13] Cosmic Calendar.
Mayan Long Count [1872000] / by interior pentagonal angle [72] = [26000], or 1000 x the Tzolkin [260].
Mayan Long Count [1872000] / by [**585**] V = [3200] exact.
[585] Venus synod / by [780] Mars synod = [0.75] exact.
[260] Tzolkin / by [585] V = [0.44444~ or [4/9], and [585] V / [260] Tzolkin = [2 .25],
with that [2 .25] as a square root length above right diagram, and [225] days as Venus sidereal!

The Mars Pentad Grid Time Pyramid has height of two units , and has all Square Roots from 1 to 8, thus distributed as lengths of the pyramid itself, and square root 9 is found in the base diagram, [not shown]. The Pyramid below that is the translation of the lengths into functions of Pi and Phi, using basic function of [585] Venus synod / by Mayan Dresden codex [702] = [0.83333~] = [Phi sq. / Pi].



The Mars Pentad Time Pyramids: Part II

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Abstract and Introduction

The purpose of this report is to expand upon the findings offered in the original publication of the Mars Pentad Time Pyramids in which the tetrahedral grid of the Mars Pentad was expanded into a series of "Time Pyramids" utilizing Pi and Phi and a predominantly a tetrahedral numeric system that expressed the planetary timelines, coinciding uniquely with the Mayan Tzolkin [260] spiritual calendar, as a primary function of calibration.

This system of applying planetary timelines to both the lengths and angles within the pyramids themselves is based initially on [13] times the [20] of the Mayan Tzolkin = [260] and offers a planetary calendar using the [13] as a basic construct in the sidereal and synods. From this analysis the most basic and most fundamental timeline construct is the Mars and Earth synod of [780]=[13] x [60], and how the Mars synod of [780] = [3] x the Tzolkin [260]. Accompanying this are Venus synod [585] = [13] x [45] and the Jupiter sidereal of [13] x [333 .333333] = [4333 .33333] days. To be all inclusive of the Mayan capabilities of planetary timeline analysis is the **Dresden Codex [702],** as this major universal constant is derived to equal Mayan **[702] / [585] Venus synod = [1.2] or the inverse [0.8333333]= Phi sq. / Pi.**

The Mars Pentad tetrahedral structure is basically constructed from **Sqrt.[0.0833333]**, and so the entire mathematical system is defined with a "floating decimal" style of calculations analyzed and scrutinized in a coincidence study to indicate universal cycles of these numbers in planetary timelines. This floating decimal system is defined in the first study, offered as Appendix 1 in this report.
Also it should be noted that the {Nine} as the Mayan **9** Lords of the Underworld is intrinsically tied to ancient Egyptian math to be exposed quickly as such using the Egyptian value for **Phi = sqrt. [1.62]:**

Sqrt[1.62] / Sqrt[2] = exactly [0.9], and [9] / Sqrt [1.62] = [7.07106781] = inverse of {Sqrt.[2] / 10},

and that quotient is EXACTLY ten times the sin and cos of [45] degrees = [0.707106781] = sqrt[2] / 2, clearly defining that this is no coincidence and the Phi value of [1.62] is discovered in the newly found Saqqara pyramid of queen Sesheshet, as proposed by Zawi Hawass to be the queen in question.

The 4300 year old pyramid recently unearthed in Saqqara also easily defines ancient Pi. With the dimensions in meters so conveniently defined as 14 meters high with a 22 meter square base, one finds what immediately what is already suggested by other Egyptologists in the length ratios:

[22] / [14] = Pi / 2, … and [22] / [7] = {Pi} = [3.142857~], …and [14] / [11] = sqrt[Phi] = [1.272727].
However when you square [**1 .2727272**] you get [1 .6193834722] and not [**1 .62**] as ancient Phi.
Arctangent **sqrt[Phi]= [1.272727]= [51 .842~] degrees, & arctan Sqrt.[aPhi =1 .62] = [51.844~].**

Thus an explanation is necessary to show why the Egyptians rounded to **[1.62] = [aPhi],**
and this is because the value [162] becomes a number without decimals and thus computes directly into the Egyptian calendar count system. [9 x 18] = [162].

Number 1.
[1.62] is [162] without a decimal limitation.
[162] = [9] x [18], and the [**9**] is fundamental in the mathematics of ancient Phi,
both in Egypt and Meso- America.
The Egyptian "Kemi" count is a constant, of basically **[10] x [1296],**
where **[1296] = [9 x 9 x 16]**,
and the Planet X sidereal of [3600] years squared = **the Kemi = [12960000].**
[12960000] = [9] x [1,440,000], or [9 x 1200sq].
I will use multiples of [**1296**] in the form of [**2592**], and [**5184**] frequently.
Number 2.
Using the pyramid base of [22] and the way the Egyptian coxed that simply by
dividing numbers into [22], ancient Phi was found by using tetrahedral [**19.5**].
[22] / by [19.5] = [x], and square [**x**] = tangent [**51.84**] degrees,
the square [**x**] again to equal ancient Phi = **[1 .62].**
In other words [22 / 19.5] = [x], then square [x] twice for [1.62]
Number 3.
Using the Kemi constant [**12960000] / [1.62] = [8,000,000]** exact.
The Kemi is a function of the basic number [36] or [360], the Egyptian calendar.
Number 4.
[9] / Sqrt [1.62] = [7.07106781]= [10] times the sin and cos [45] degrees,
and it also equals **Sqrt[2] / [10],** which gives tetrahedral meaning to **[aPhi] = [1.62].**
NUMBER 5.
Arctangent [aPhi] = [51.84] degrees, and pentagonal angle [72] squared = [5184].
This is all forwarded to accommodate the image diagram 2 pages below,
and the calculations seen with [aPhi].
These important calculations involve both **[aPi]** and **[aPhi],** with **[a]** designating ancient.
This equation reveals how [**16**] is fundamental in ancient Egyptian geometry.
Great Giza pyramid slope = Saqqara pyramid slope = arctan[14 / 11].
[16] / by [aPi] squared = [1 .619834711] = [14 /11] squared **= [aPhi] = [1. 62],**

Kemi [12960000] / by [16] squared =[x], then [x] / by [19.47122061] = [2600],
or ten times the [260] Tzolkin Spiritual Calendar!

Coincidentally, this author has found a closer value for ancient Pi to equal sqrt [8] exact in an equation :
Exact ancient Pi for the sqrt [8] equation = [4] / sqrt[1.62] = [3.142696805]. = [aPi-x], x for exact.

Using the Egyptian ancient value for basic Pi **= [22 / 7] = [aPi]** , and the tangent of the Side Angle
of the Saqqara pyramid relating to the [9] which is arc tangent of **[14] / sqrt [242] = [0.9]** = 42 degrees:

[0.9] x [aPi] or [22 / 7] = sqrt [8], and this value is actually [**8.0008**],
but we want to get that to exact [8.00000~] just to see what happens.

NOTE:Even though [aPi-x] is an efficiency value by this author, the Egyptians used [22 / 7] = [aPi].

The value for ancient Egyptian Phi is thus abbreviated as [aPhi] with the letter [a] denoting [a]ncient.

Using the Egyptian ancient value for basic Pi = **[22 / 7] = [aPi]** , and the tangent of the Side Angle
of the Saqqara pyramid relating to the [9] which is arc tangent of **[14] / sqrt [242] = [0.9]** = 42 degrees:

[0.9] x [aPi] or [22 / 7] = sqrt [8], and this value is actually [8.0008],
and so to excruciate the process to finality and to fully define an EXACT scutinization
of ancient Egyptian calculations possibly used,
one uses the EXACT value for ancient Phi to derive a value of ancient Pi exacted from Sqrt[8]:

Exacted Egyptian [a]ncient Pi will defined as **[aPi-x**] = [3.142696805] = **[4] / sqrt. [1.62],**
for easy differential quantifications between that value and [**aPi**] = [3.142857143] = [**22 / 7**],
IMPORTANT:
NOTE:Even though [aPi-x] is an efficiency value by this author, the Egyptians used [22 / 7] = [aPi].

[0.9] x [aPi-x] = EXACTLY square root [8], **… or [0.9] x [3.142696805] = sqrt[**8**].**

The ancient Egyptian slope of the Side Face of the pyramids is **Sqrt [1.62] = [51.84]** degrees.
Thus also it should be noted that pentagonal based number **[72] squared = [5184**].
Notice that unique decimal variation coincidence between the two numbers!

And to finish off the introduction **the Mayan Dresden Codex Mars [702] is hereby solved**:

Side angle of Saqqara pyramid of Queen Sesheshet = arctan of [14] / sqrt [242] = [0.9],
and the same side angle can be expressed as the Dresden Codex **[702] / [780] Mars synod = [0.9],**
therefore I offer this incredible formula as proof using that [0.9] value:

[0.9] divided by Sqrt [aPhi] = [0.707106781] which is the sine and cosine of **[45] degrees**.
[0.9] / sqrt. [1.62] = [**0.707106781**],
and to introduce an aspect of the Egyptian Pyramid Mile = [**6084**] into this framework:

[**6084**] = [78] squared, or [7.8] times the Mars synod of [780] days.

Dresden Codex [**702**] **/ by sqrt**. [**1.62**] = 551.5432893 = sqrt. [**3042**00],
And using the decimal variation system which extends into the square roots we take that [**3042**00],

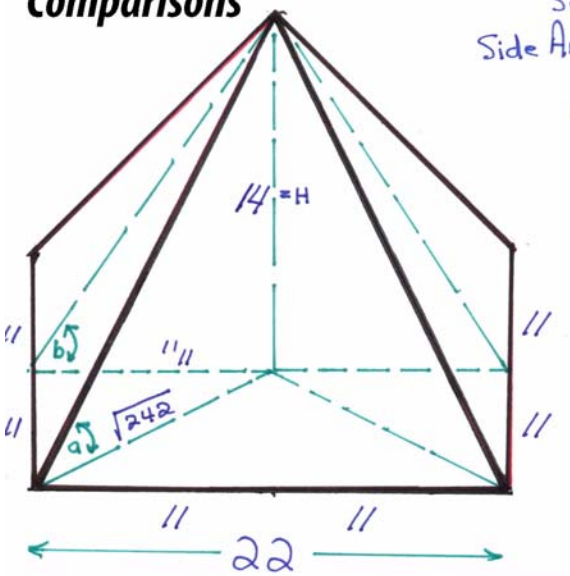
The Egyptian Pyramid Mile [**6084**] / [**3042**] = [2].
And [**6084**] = Jupiter [4333. 33333] / [**1.404**], with that [1.404] being exactly 2 times [**702**], or [0.702].

So to conclude the introductive "abstract" and tie this all in to the Mars Pentad tetrahedral framework:

Dresden Codex Mars [702] / [aPhi], then / tetrahedral [19.5] = sqrt [800] exact!
Dresden Codex Mars [702] / sqrt.[1.62], then / tetrahedral [19.5] = sqrt. [800] exact!

The Saqqara pyramid is on the left in the next diagram.
Note that the Great Giza Pyramid is the same geometry as the newly found Saqqara Pyramid.

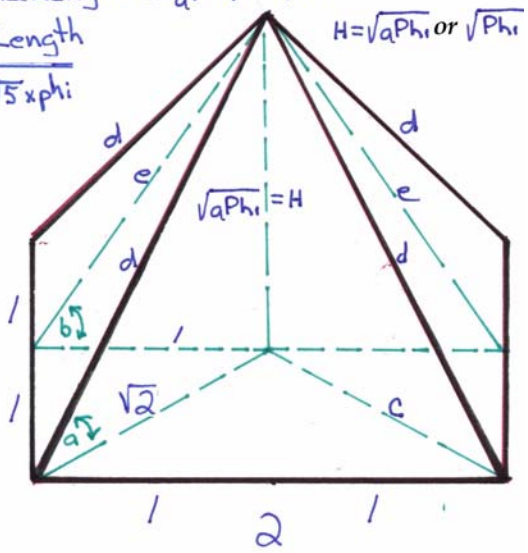
Saqqara Pyramid Comparisons



Side Face Length e = a Phi or Phi

Side Angle Length

$d = \sqrt{\sqrt{5} \times phi}$

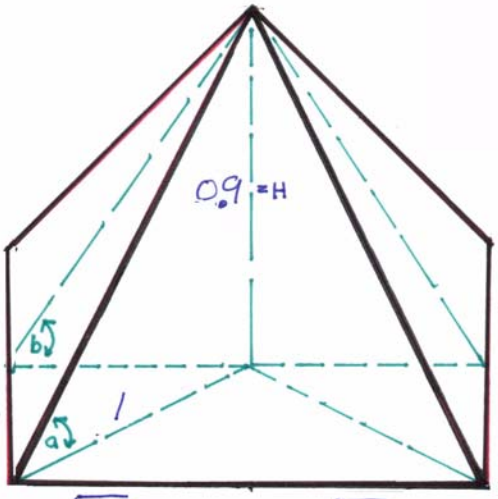


Great Giza Pyramid

in feet

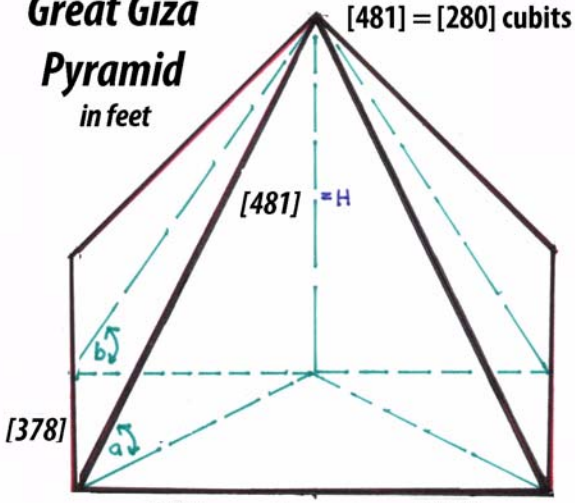
H = [481.090909]

[481] = [280] cubits



0.707 sin

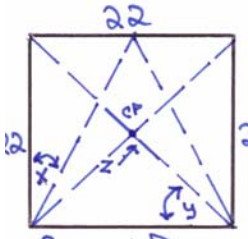
0.707 cos 45



Saturn Synod

Side Angle Comparisons

arctan 0.9 = 42°



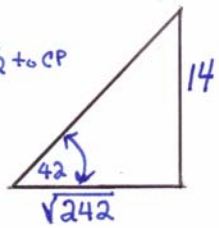
x = 26.5°

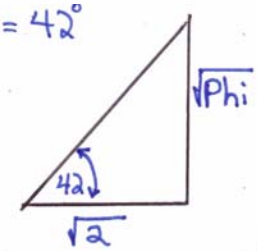
y = 45°

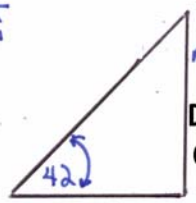
z = √242 to CP

Pyramid Base

CP = center point



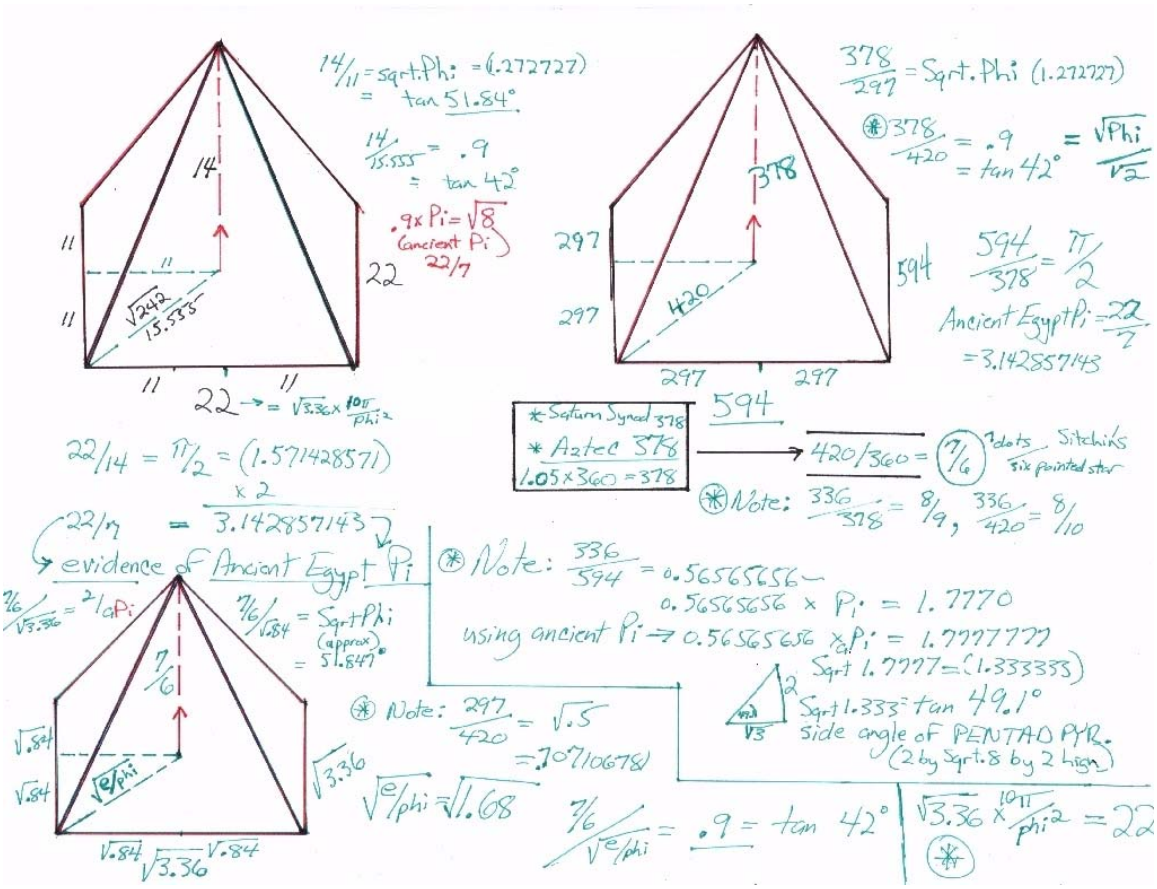




702

Dresden Codex

Mars Synod 780



Above diagram with the Saturn synod[378] pyramid also shows how [336] is intrinsic.
Notice as well in the **"Sitchin" [7 / 6] Pyramid** the Pyramid base length becomes **Sqrt[3.36],**
and the required base hypotenuse length to achieve t**he [42]** degree angle is **Sqrt of [e / phi],**
and thus [e / phi] = [1.68] which times **[2] = [3.36]** correlating the **[336].**
The Aztec [378] or Saturn synod is a beautiful number using the Sitchinesque **[7/6]** height shown**,**
noting the number **[336]** in coincidences between those 2 pyramids**, and [378] / [7/6] = [324] = [18] sq.**

http://www.scribd.com/doc/2169448/Exceptional-Lie-Groups-Einfinity-Theory-and-Higgs-Boson-ElOkaby

Quote from above link:
This idea can be applied to Klein modular curve which could be seen as topological deformation of E8 exceptional symmetry group. The original curve has [336] fold symmetries corresponding to exactly triangle pieces of which it is made.
The [336] triangles are considered to be degree of freedom or dimension.

Note: in the above physics paper, on page 31, is a number derived of importance [137.135225]
Using the **Leedskalnin** magic numbers of **[6105195 / 7129] = [856 .3886941],** now divide.

[856 .3886941] / by [137.135225] = virtually **EXACT Sqrt[39].**
Using [137.135225] now decimal variated to **[1.37135225]** then squared **= [1.880607],**

Now take that [1.880607] x [365.25] Earth Year = [686.89] or the [687] Mars sidereal!!!

Short summary of the Decimal Variation System and numeric sets-→ see Appendix 1

The Mayan [9] Lords of the Underworld in this exercise are bemusedly represented
by the fractional decimals to infinity that the [9] represents in this table:

[1 / 9] = [0.1111111], …… [2 / 9] = [0.22222222], …. [3 / 9] = [0.3333333] and so on.

Thus the author expresses everything in decimal form for this reason:
To reveal dynamic repetitive important coincident numeric sets as comparatives.

[702] / [aPhi] = [433 .33333],
The Jupiter sidereal of [4333. 33333] = [13] x [**333. 333333**],
and the sin of tetrahedral [**19.5**] or exact [19.47122] = [**0.333333333**].
Using the Jupiter value for the sidereal of [4333 .33333] days, the author cannot show comparative
cycling of numbers with unique decimal form of repetition,
by saying that the Jupiter sidereal is [4333 and 1/3] days, because typed numeric text reveals
the repetitive numeric sets by expressing the decimal in full as such:

The Mayan Dresden Codex **[702] / [360]** Egyptian / Sumerian calendar = [**1.95**],
and this is a decimal variant of the set [**195**],
of which also is the tetrahedral angle of [**19.5**] degrees.

To incorporate important numbers in this process I offer in the [9] with the [19.5], and the [260] Tzolkin:

[19.5] / [9] = [**2.1666666**] = [26 / 12]. The [26] thus correlates to the [260] Tzolkin.
And [20] x [**216.666666**] = [4333 .33333] Jupiter sidereal. Note: [Sqrt3 / 4] = [0.433].

The decimal variation process follows into the square roots as well.
I will show this with Mayan Tzolkin [260] and then apply that to the Leedskalnin number [6105195].

Tzolkin [260] squared = [67600],
and the [**2.6**] is the square root of [**6.76**].
Now take Coral Castle **Ed Leedskalnin's** famous number from his pair that are famous:
[7129] and [6105195].
Using the [6105195], and the Mars Pentad research **[1.4] = [Phi x e], then divided by [Pi],**

[6105195] / by [1.4] = [4360853 .571], now square root that number THREE times.

[4360853 .571] square rooted thrice = **[6.76]** on the money,
and square root [**6.76**] = [**2.6**], correlating the Mayan [**260**] Tzolkin.

And don't forget the dimensions of the Queen's newly discovered pyramid!
The height of aforementioned Saqqara pyramid in meters is **[14] = {10phi} x [e], then divided by [Pi]!**

The Egyptian Pyramid Mile

References:

Great Pyramid Passages and Chambers: by Morton Edgar - 2006 - 216 pages
A Pyramid mile contains 2917.467+ Pyramid cubits, or **[6084. 141]**+ British feet.

http://www.hunkler.com/pyramids/pyramid_symbolism.html
The Pyramid Mile is 2917.46356+ cubits or **6084.**6418 ft.

The obvious number of absolute coincidence here is [**6084**].
This was recognized as a distinct function of my Jupiter sidereal of [**4333 .33333**] days.

[6084] / [4333 .33333] J = [**1.404**], and that [1.404] = [2] x [**0**. **702**],
directly correlating the Mayan Dresden Codex [**702**].

The above differential in the first referenced book by Morton Edgar
has the cubit count at [2917. 467], and to accommodate pure [6084] that count is [2917 .4],
fully [0.067] cubits off of the full count aforementioned, thus logically negligible.

The BEST way to prove the definitive Pyramid Mile as [**6084**] are these two facts:
[**6084**] = [**780**] Mars synod x [**7.8**], or it also equals [**78**] squared.
Secondly is to take the Mars Pentad Time Pyramids **SPEED of LIGHT Harmonic Equation**.
{C} = Speed of Light in km/sec = **[299792.5]** km/sec.
[A] squared TWICE, then divided by {C}, = [B], then square root [B] TWICE.
[A] thus = [**6084**].

[**6084**] sq. TWICE = [x], then divided by **{C} = [B], then [B] sqrt.** TWICE **= [260] Tzolkin!**

[6084] / [585] Venus synod = [10.4], and [10.4] is a function [**260**] as [10.4 / **2.6**] =[4].
[6084] / [117] Mercury synod **= [52], and [52] = [2 x 26].**
The Mars Pentad tetrahedral calendar count aligns Venus and Mercury synods mathematically
to the tetrahedral pyramid math developed from the Mars Pentad grid [2] by sqrt[8].
This is **[117] Me x [5] = [585] V,** and [117]Me = [9] x [13], and [585]V = [13] x [45].
See next section below for full explanation.

[6084] / [702]M = [8 .6666] = [2 x 4.33333] aligning with Jupiter **[4333 .3333] =[13 x 333 .3333].**
[6084] / [144] = [42.25] and **[4225] = [65] sq.,** aligning**[780]M = [12 x 65], and [585]V =[9 x 65].**
Using the Egyptian Kemi value of [3600]sq.= [1296000], decimal variated to [1296],
[6084 / [1296] = [4.6944444] = [2.166666] squared.
The Jupiter vigesimal is [20] x [216 .66666] = [4333 .3333] Jupiter sidereal.
[6084] / [**12**] =[507] = [0.65] x [780]M, and [6084] / [**13**] =[**468**]= [0.6666] x [**702**].
Saturn Sidereal **[10759] / [6084]** = [x], then times {Pi} =[**5.5555**]= **[4333 .3333]J / [780]M**.

Mayan Long Count **[1872000] / [6084]** = [307.6923077], now square root twice, = [**4.1882**].
Now using modern {Pi} one takes [1.33333] or[4/3], and 4/3{Pi} = [**4.1888**], close enough?

TABLE I: **The Planetary Sidereal and Synods in the [13] Cosmic Calendar**

Me = Mercury, V = Venus, E = Earth, M= Mars, J = Jupiter, S = Saturn

[13] x [20] = [260] Tzolkin, then x [3] = [780] Mars synod = 20 x [39], and 40 x [19.5].

Mars synod to Earth = [780], and the Venus synod to Earth = [585]

The Mars synod of [780] days thus aligns with Venus in a [13] Cosmic Calendar.
[780] M= [12] x [65] and [13] x [60], and [780] / [9] = [86 .6666] or [2] x [43 .3333]
[585] V = [9] x [65] and [13] x [45]
And [13] x [9] = [117] Me synod then x [5], = [585] V synod.
Venus sidereal is [225]V = [9 x 25], and [13 x Sqrt3] x [10] as an approximation**.**
The resultant Jupiter sidereal thus = [13] x [333 .333333] = [4333 .33333]

Dresden Codex [702] M = [9 x 78], = [13 x 54], = [19.5 x 36], = [26 x 27], = [12 x 58.5]
Dresden Codex [702] M / [780] M = [0.9] = arctangent of the side angle of Saqqara Pyramid.

From this one can now easily see how planetary timeline counts align and progress in a cycle.
Mars sidereal is [687] in standard western astronomy,
and my count is **[689] = [13] x [53].**
This was calculated by virtue of the [**53**] being equal to [**2**] x [**26.5**] Mars Pentad angle,
and [**53**] essentially equaling **[19.5] x [e**]. Math constant [e] = [2 .71828]

It should be noted that BOTH counts 687 and 689 work just fine.
Often one works better than the other.
But by virtue of alignment numerically, the Mars [689]
coincides directly with the Dresden Codex [702] when using the Earth [364] as a count vehicle:

Earth [**52**] x [7] = [**364**] = [**28**] x **[13]** full moons per year, and Mars [**53**] x [13] = [**689**],
Thus [**52 / 53**] = [0.981132075], which equals exactly Mars [**689**] / by [**702.25**] = [0.981132075]
Where [**26.5**] squared = exactly ----------→[702.25].

Now herein lies the magic as well using standard Mars [**687**],
which also shows a nominal difference between [364] and [**365 .22**] day Earth years.
[687 / by 365 .22] = arctangent of exactly [**62.00**] degrees, with opposite [**28.00**] degree angle.
The obvious coincident is that perfect [**28.00**] degree angle x [**13**] = [**364**].

Jupiter sidereal is [13] x [333 .33333] = [**4333 .33333**] = [19.5] x [222. 22222] a multiple of [2 / 9].
Jupiter sidereal [**4333 .33333**] / [9] = [481. 481481] which is a direct decimal variant of [260 / 540],
with [260] as the Tzolkin and [540] being the total degrees in the pentagon.

Saturn uses Pi as a calculative constant with all the Pentad planetary mathematics.
Saturn sidereal [10759] / [13] = [827.6153846], then x [Pi] = [2600] or ten times the Tzolkin [260]!
Note: The Saturn synod of [**378**] = [1.05] x [360] and is the Aztec calendar function number.
Saturn synod =AZTEC calendar [**378**] = ancient Egyptian Phi squared or [2.6244] x [**144**].

In Mayan glyphs for Mars is found an astronomical count for **[819].**
This count of **[819] = [21] x [39]**, in relation to the Mars synod of **[780] = [20] x [39]**.
It is this authors speculation that the [**819**] is a count value ascribed to the Mars synod with Jupiter.
Thus the known Mars synod of [**816.5**] days may be a calibration to **[819] = [13] x [63] and [9] x [91]**.

The Mars Pentad length of Sqrt.[6] / [3] = [0.66666] = [0.**8165**],
Thus the Mars synod of [**816.5**] is a decimal variation of the Mars Pentad Sqrt [0.66666] = [0.**8165**].

Now notice on the **[819] = [91] x [9]**, in relation to a Pentad "tetrahedral" style Earth sidereal.
Coincident with Earth would be the [**91**].
Earth can be defined as the **Earth "Lunar Year" of the [13] full moons**,
and the [7] day x [4] week = [**28**] day month, and [7] x [**52**] weeks of a lunar calendar, thus:

Earth = [**13**] x [**28**] = [**364**] = [4] x **[91], AND** importantly also **[14] x [26] = [364]**!
Obviously the [26] and [52] in the equations correlates the [260] Tzolkin.
The above usage of multiples of [7] may be why ancient stele and seals infer to Earth as the 7 dots.

This is important with the [**14 x 26**] = [**364**] because as mentioned earlier **[14] = {10phi} x [e], then / Pi**.

NOTE: I n a decimal variation beauty Mars Pentad Angle [**26.5**] is in synchronicity as such:
Sqrt. [**265**,000] = Earth Lunar Year [**364**] times Square Root [**2**].
AND! Sqrt [**26,5**00] times Sqrt[5] = Earth Lunar Year [**364],**
[**26,5**00] / [364] = Sqrt[**5300**], aligning as [53] x [13] = [689] Mars sidereal in the [13] Calendar.

NOTE: Mars Pentad angle [26.5] calibrated as Sqrt [26.5] x [aPi] = modern Phi x [10].
As such: Sqrt. [26.5] x [aPi =3.142857143= 22/7] = [16 .17885] and 10Phi = [16 .1803399]

Mayan Dresden Codex [702] Solved with Ancient Egyptian and Mayan Phi and Pi

Ancient Phi = [1.62], Dresden Codex [702] / [1.62] = [433 .3333] = 1/10th Jupiter [4333 .33333]

The number [162] = [9 x 18], = [2 x 9sq.], = [3 x 54],
The number [162] = [5 x 23.4] and **[234] = [0.9 x 260 Tzolkin],**
[234] is of importance here because it is [**234 / 702**] = [**0. 33333**] = tangent tetrahedral [**19.47122**]
[234] / [260] Tzolkin = [0.9] = tangent of Saqqara Pyramid of the Queen.
Leedskalnin [6105195] / [23.4] = [x], then times **[1.4] = 1000 Earth years in days = [365268].**
Note: On the above value used of [1.4], that [1.4] = [phi x e], then divided by [Pi].
[23.4] squared twice is essentially the Speed of Light in km/sec. [see 1st Mars Pentad pdf]

Ancient Egyptian Phi and Phi squared = [1.62] and [2.6244]
Ancient Mayan Phi and Phi squared = [1.62] and [1.62 + 1] = [2.62]

Ancient Mayan Phi = [1.62], and ancient Phi "squared" = [1.62] + [1] = [2.62].
Mars standard western sidereal = [687] days. The square root **[6.87] = [2.621]**
Sqrt [687] / Mayan Long Count [1872000] = [1.4 x 10 to –6 exp.] and [1.4] = {phi x e, then / pi}.

This value of [2.62] as "Phi" squared also is precise within the Teotihuacan [**15.5**] degree grids.
Mayan [Phi]sq. or [**2.62**] x tangent [**15.5**] = EXACT [**36.00**] degrees, cosine [36] = modern Phi/2.
Ancient Egyptian Phi follows the actual squaring. Thus [**1.62**] squared = [**2.6244**].
This is evidenced by the Kemi value, which is the Planet X sidereal of [**3600**] sq. = [**12960000**].
[**12960000**] / [**1.62**] = [**8**,000,000].
[**12960000**] / [**2.6244**] = [4938271 .605], and what exactly is that homely number? [**4938271 .605**],
Infinite set **[2 / 9] = [0.2222222], now** decimal variate to [2222 .22222] squared = [**4938271 .605**].

Now to show some unusual evidence that Mayan Phi Squared = [2.62] and not Egyptian [2.6244]:
Mars [**780**] synod / [**2.62**] = [297 .7099237].
When you square root that [297 .7099237] FOUR times =[1. 42761822]= tangent [54.99] degrees.
When you square root that [297 .7099237] FIVE times =[1 .194829787]= tangent [50 .07].
Nobody will argue that these are virtually exact 55 and 50 degree angles.
Egyptian Phi [2.6244] does not work as precisely at all.
For the next step use the equation [**1.4**] = {phi x e}, then divided by Pi, with these values as modern.
Mars synod [**780**] / [**1.4**] = [x], then Sqrt FOUR times = [1 .4884645993] = tangent [56.03] degrees.

Now look at the true modern Phi progression with [1.61803399], then squared, then Plus One.

[1.61803399], squared = [2.61803399] = [1.61803399 +1], then [2.61083399 + 1] = [**3.61803399**].
This is an important number by virtue of: [**3.61803399**] / Sqrt[**5**] = [1.61803399].

The Mayans did essentially the same thing with the **Phi =[1.62]** progression.

Mayan Phi = [1.62] then Phi sq. = [1.62 + 1] = [2.62], and then [2.62 + 1] = [3.62]
To prove this conclusively one takes the Mayan Dresden Codex [**702**].

[**702**] / [**3.62**] = [193.9226519], and SQUARE that three times = EXACTLY **[2]** x Ten to 18 power.

Mars synod [**780**] / [**3.62**] = [215 .4696133], square root that FOUR times =[**1.4**]= [phi x e], then / Pi.
The actual value achieved is [**1.399**060925] and that is close enough to be a major coincident.
However look at the exact arc tangent of exact [1.399060925] = [54.444] degrees, reverse = [**35.555**].
This is how the harmonic Mayan mathematics cycles work so well.
Tangent [**35.555**] x [364] = [260] Tzolkin approximate.
Tangent [35.555] x Earth Year [365.22] = [261] approximate, [261] tessaracts?
[702] x tangent [35.5555] = [501 .7594425] = **[22.4] squared**. The coincident number is [**224**].
Using modern {e} and Phi, where 100[e / phi] = [168], that [**224**] = 4/3[e / phi], then x [100].
[**224**] / [**336**] = [0. 666666], and [**336**] = 2 x [**168**],
and [**336**] was exposed as an important physics number near the beginning of my document,
from the El Okady publication earlier linked,
[**Quote**]:
This idea can be applied to Klein modular curve which could be seen as topological deformation of E8 exceptional symmetry group. The original curve has [336] fold symmetries corresponding to exactly triangle pieces of which it is made.
The [336] triangles are considered to be degree of freedom or dimension. [quote**]**

NOTE: Using Mayan Phi value [**3.62**] and Mars sidereal **[687]**, as [**6.87 / 3.62**] = [**1.8977900],**
Any Mayan cosmologist recognizes [**1.8977900] x [10,000] =]18980] Mayan Calendar Round.**
Now to review the Venus [**585**] synod with the [**702**] and the Mayan Long Count.
One must remember that ancient calendar counts had a little "wiggle room".
In other words as long as the count was very close, it could be adjusted to perfection.
The Venus synod at [584] and [585] in various calendar counts both work.
However the Mayan Long Count PROVES that the Mayans adjusted the Venus synod to [**585**].
The Mayan Long Count [**1872000**] also proves that the Mayans created this number as a finely tuned perfection of the ancient Egyptian [360] based calendar into a tetrahedral style recalibration.

Even though the Mayan calendar round of [**18980**] / standard Venus synod [584] = [32.5] = [13 x 2.5], the [584] value does not compute into the Mayan Long Count.
[1872000] / [584] = [3205], BUT using [585], we get **[1872000] / [585] = [3200] exact!**

So why the [3200] ? It is a multiple of set [16], and thus an equation relationship is formed.

[4] / by Sqrt[1.6] = square root [10]! And then [4 / by Sqrt-aPhi] =ancient Pi= [4 / by Sqrt1.62].

[1872000] / [1.6] = [1170000] or 10000 x the Mars Pentad tetrahedral style Mercury synod of [117]

Now use ancient Phi and the Mayan long count [1872000] = [13] x [144,000],
[1872000] / [1.62] = [1155555.555], now divide by the Mars Pentad tetrahedral Jupiter sidereal.
Performed as such: [1155555.555] / [4333 .3333] = [2666.66666]
[1872000] / Mayan Dresden Codex [702] M = [266.6666]
Though not exact it should be noted that [1155555 .5555] / [365.41875] = sqrt [10,000,000],
With the [365] number correlating closely to the exact Earth year.

Mayan Long Count = MLC., and [585]V is the Venus synod in tetrahedral calendar count.
The Mayan Long Count recognized the function of the [585] / [702] = [0.83333] = Phisq. / Pi.
Like this: [0.833333] x [1872000] = [1,560,000] = [780] Mars synod x [2000]
And using the value of [**585**], we get [**1,560,000**] = **[585]V synod x [2666.6666]** which is pure tetrahedral by virtue of that [266666] set being a fundamental component of the tetrahedral Mars Pentad sqrt[6].

Sqrt [6] / [3] = Sqrt [0.666666], and sqrt [0.66666] x [2] = sqrt [**2.66666**]
[2.666666] / [2] = [1.33333] = tangent of the slope of the second pyramid at Giza.

Arc Tangent of [**2.666666**] = [69.444] degrees, now square root that number [69.444] = **[8.3333],**
And the above value [**8 .3333**~] = 10 x [Phi sq. / by Pi], or 10 x [585V / by 702M].
[1872000] MLC / by [702] Dresden Codex Mars = [2666.66666],
[1872000] / [8333 .33333] = [224.64] or about as exact to the Venus sidereal [224.7] as one could want.
Now looking at the value of [Phi sq. / Pi] = [**0.83333**] = [585] Venus synod / [702] Dresden Codex Mars,
[0 .833333~] x [aPhi]= [1 .35], **and then [585] V / by [1 .35] = [433.33333] = [702] M / by [aPhi].**
[0 .833333~] x the Baktun [144,000] = [120000], and [144,000] / by [aPhi] = [88888 .88888] = [8 /9].

Leedskalnin number [**7129**] / [**aPhi**] = [4400.6], coincident is [4400] x 12 = [52800] or 1000 feet.

[**aPhi**] = [**1.62**], and that squared = [2.6244], then times [**144**] = [377.9] or AZTEC [378].
Author's opinion that the Aztecs refined Mayan and Egyptian math using Saturn synod]378].
Now to prove that the Egyptian math was also intrinsically tied to the [**9**] just like the Mayan math:

Kemi = Planet X sidereal [3600] squared = **[12960000], then / by the Baktun [144,000] = [90]**
The Baktun [**144,000**] / [aPhi = **1.62**] = [88888. 88888] = function of [**8 / 9**] = [0.88888].

Kemi [12960000] / [**1.62**] = [8,000,000]
Kemi [12960000] / [aPhi sq.= **2.6244**] = [4938271.605] = **[2222 .2222]squared** or [**2 / 9**] squared.

Therefore when the Mayans/MesoAmericans used the [13] with the Baktun to achieve [1872000],
they converted the Egyptian pentagonal based system of [360], and ,or [72] and [54],
into the Mars Pentad tetrahedral style of calendar count.

BUT there is a UNIQUE difference in the Egyptian and Mayan and/or MesoAmerican counts.
We know that the [9] was used by both cultures as an extremely important number.
We know that the [7] is important as well by virtue of [22/7] = ancient Pi, or [22/14] = [aPi/2].

GET READY FOR THIS PROCESS: From the Pentad study [1.4] = {phi} x [e], then divided by [Pi],
and the [**1.4**] correlates the multiples of [7], like this [7, 14, 28, 56 etc.]
[**14**] was the height in meters of the Saqqara pyramid analyzed.
So the Mayan Long Count also needs to account for [**14**] distinctly, or multiples thereof like [**28**],
as a higher physics relationship to {10phi} x [e] , then divided by [Pi] = [**1.4**].

Here is a mind blower: [**1872000**] / [**28**] = [**66857**] = **100 times the exact Mars sol**.
Now take **Sitchin**'s cylinder seal translation of Earth = 7 Dots, Mars = 6 pointed Star, = to [**7/6**],
Mayan Long Count [**1872000**] / [**28**] = [**66857**], then x [**7 / 6**] = 1000 times the Mars [**780**]!

And when one ascribes the height of the Saqqara pyramid as [**7/6**] the Side Angle length required
To accommodate the existing [42] degree angle = Sqrt of [e / phi] = Sqrt[1.68]!

So back to the [14] or [1.4] = {phi} x [e], then / by [Pi].

Remember that the **Teotihuacan grids** are offset by the mystery angle [15.5] degrees.
In my published study it was shown that:
Tangent [15.5] x sqrt[13] = [1], and Sin[15.5] x sqrt[14] = [1].
This is matched by the Pentad tetrahedral grid in a similar style equation using [19.5] and [26.5] angles,
as they are exactly to be defined at [19.47122] and [26.565].
Tangent [19.47122] x sqrt[8] = [1] , Sin [19.47122] x sqrt[9] = [1],
Tangent [26.565] x sqrt[4] = [1], sin [26.565] x sqrt[5] = [1].

So noting that the Teotihuacan grids use the [13] and the [14] in square roots,
also note that 13 x [28] = 364 and 14 x [26] = [364].

Modern Phi [1.61803399] PLUS [One] = [2.61803399] = [Phi] squared.
They did the same thing at Teotihuacan with ancient Phi.

Teotihuacan ancient Phi squared is NOT [1.62] squared = [2.6244], it is [1.62] plus [1] = [2.62].

Why? Because sqrt[1.62] = tangent [51.84] degrees,
and double sqrt. of [2.62] = still maintains the slope as tangent [51.83]!

Now review the process. **Ancient Phi = [1.62], and ancient Phi "squared" = [1.62] + [1] = [2.62].**

To prove this in an incredible mathematical equation I will take the **Teotihuacan grid of [15.5]** degrees.

Tangent **[15.5] x [2.62] = [0.726590305]** = EXACT tangent of **[36.00]** degrees.
The sin of **[15.5] x [2.62]** = [0.700164545] = EXACT tangent of [**35**] degrees.
The sin of **[15.5] x [2.62]** = [0.700164545] = EXACT sin of [**44.44**] degrees,
[**44.44**] x [585] Venus synod = [260] Tzolkin as [26000], or {4/9} =[0 .4444444] x [585] = [260].
NOTE: This process will not work with aPhi =[1.62] then squared = [2.6244],
Thus proving that [2.62] is the correct number as [aPhi +1].
With the Venus [585] synod I shall take this into the [702] shortly and also prove [2.62].
Sin [15.5] x aPhi or [1.62] = [0.432926169], equals tangent of [**23.4**] degrees,
With reverse angle [66.6], and [23.4] squared twice is my Mayan value for speed of light in km/sec.

BUT also to show evidence of Venus synod at [**584**],
take tangent [**15.5**] x [**1.61803399**] = [0.448720539] = tangent [**24.1667**], so… what?
Well just square that angle number of [**24.1667**] = [**584**.03] or the standard Venus [584] synod!!!

What is unique with the Mars Pentad and Mars [**702**] from the Dresden Codex is that the Venus synod is exposed to be a calendar count function [**585**] rather than the western astronomical value of [**584**] days. Within the Mars Pentad research it was found that two of the predominant angles of **[19.5] x [30] = [585].** In constructing calendar count, the Venus synod [**585**] value distinctly aligns the planetary synods and sidereal by virtue of synchronizing [9] and the [13] in the calendar counts.
This is shown by the **Venus synod [585] = [9] x [65], and [13] x [45], and [702] = [13 x 54].**
And then accompanied by the Mercury synod [117] = [9] x [13], and [5] x [117] Me = [585] V.

[585] V / [780] M = [0.75], and of course [585] V / [702] = [0.83333] or that inverse is [1.2]

Thus proof shall be tendered that indeed [**585**] was used by ancient Mayans and Egyptians pretty much along with the [584] whenever the count required, but [**585**] was highly optimized.

So to incorporate **ancient Phi = [1.62]** and the [**702**], the Mars [**780**] and the Venus [**585**],
As a proof of multi cultural usage of the ancient Phi and the [702] I offer these unequivocal proofs:

[702] / sqrt[1.62] = [551.5432893], then divide by [780] Mars synod = [0.707106781] = sqrt[2] / 2.

[0.707106781] = sqrt[2] / 2 is a fundamental Mars Pentad length and also the sin and cos of [45] degrees.
[0.707106781] = sqrt[2] / 2 is a fundamental Mars Pentad tetrahedral angle tangent.

[702] / sqrt[1.62] = [551.5432893] , then divide by [585] = [0.942809042].
The Bent Pyramid has a slope "slightly over 43 degrees", [0.942809042] = tangent of [43.313]!
The Venus synod of [585] in a ratio of [8 / 9] in [585 to 658.125] shows 658.125 sq = [43, 3128],
therefore [0.942809042] squared = EXACTLY [0.8888888] or [8 / 9].

Obviously the above equations will not work as well with [584] because:
[702] / sqrt[1.62] = [551.5432893] , then divide by [**584**] = [0.944423441], that squared does not = **8/9**.
Thus with the mathematical evidence of ancient Phi with the [702], the Venus [585] is correctly applied.

To accommodate the incredible evidence of the Teotihuacan grids with [2.62],
Further evidence of the ancient Phi as aPhi = [**1.62**] and **aPhi squared = [1.62 + 1] = [2.62],**
is found in the original Mars Pentad Universal constant equation:
[585]V / [702] M = [0.833333] = Phi sq. / Pi = 5/6.

Notice that if one takes aPhi as [1.62] and squares that, one gets [2.6244].
So using that in the equation **[585]V / [702] M = [0.833333] = Phi sq. / Pi,**
One gets **[2.6244] / [3.14159] = [0.835** 37**]** inconveniently off from **[0.833333].**

Even using **ancient Pi of [22 / 7],** the formula **is [2.6244 / 3.142857143] = [0.835],** still not good**.**

So the conclusive evidence for [1.62] = aPhi, and "squared" = [aPhi +1] =[2.62],
One need only take ANCIENT Pi and [**2.62**] to preserve the [**0.83333**] = [585]V / [702] M.

So , aPhi "squared" = [2.62], and then {aPi} = [22 / 7] = [3.142857143].
Therefore [2.62] / by [3.142857143] = [0.83363636] and that is close enough to [0.83333]
to maintain the integrity of the [585] V / [702] M = modern Phi sq. / modern Pi = [0.83333].

The Jupiter sidereal performs MAGIC with [aPhi] = [1.62] and the Dresden codex [702].

[702] / sqrt[1.62] = [551.5432893], then divide by [4333 .3333] = [0.127279221]
The above result of **[0.127279221] is exactly [1 / 10] of Sqrt [1.62] !!!**
[702] / [aPhi] = [433 .33333].

Fantastic? Yes/ no? … Yes, and Sqrt [1.62] / by [9] = sqrt[2] / 10.
[aPhi] = [1 .62]
Mayan Long Count [1872000] / by [1.62] = [1155555 .55555], then x [585]V = [676000000],
And that [676000000] = **[260] Tzolkin** x [260000]. Note: [585] V is the Venus synod.

That above equation alone PROVES that the Mayans optimized [585] as the Venus synod,
when using the Long Count of [1872000] days!

Egypt Kemi of **Planet X** sidereal [3600] squared = **[12960000], then / by [1.62] = [800,000]**.

So we come full circle, and yes to a degree it is splitting hairs between [2.62] and [2.6244].
Basically the Teotihuacan Grids definitively used [aPhi] sq to = [1.62 + 1] = [2.62]

The Mayan Long Count will show a preference to the [**2.62**] as well,
and the [**702**] M can use both values,
but approaches modern Phi more closely by using the [**2.62**]. Note: [4333 .3333] J is Jupiter sidereal.
Compare the equations:
[702] M / [2.6244] = [267 .4897119], then divide that INTO **[4333.3333]J** = [**16.2**] or 10 x [aPhi] exact.
[702] M / [2.62] = [267.9389313], then divide that INTO [4333.3333] J = [16 .17284] = 10[Phi] approx.
The result is that using **[2.62]** with the **[702]** brings the process closer to true Phi,
And the difference is using [2.6244] in this [702] equation, one is off true Phi by [0.0075]
And using aPhi sq. = [2.62] in this [702] equation, one is off true Phi by [0.02].

So lastly the process unfolds in hair splitting with the Mayan Long Count [**1872000**] , and the [1.4].
For decimal purposes of shortening the equation [1872000] will be reduced to [**1.872**]
The resultant numeric in this equation is identical to using the full count but this displays better.
Note: [1.4] = [phi x e], then / by [Pi].
[1.872] / [2.62] = [0.714503817], and that inverse is [**1.399**57265] or [**1.4**]
[**1.872] / [2.6244]** = [0.7133059], and that inverse is [1.401923077] or not as close to [**1.4**]
The difference however is apparent and important.
[1.4] minus [1.39957265] = [0.0004]
[1.4] minus [1.40192308] = [0.001923], thus the **[2.62]** as applied in Teotihuacan grids has evidence
of being optimized by the Mayans and Meso-Americans as **[aPhi] squared, = [1.62 + 1]**
and thus had a degree of sophistication advanced from the Egyptians using [aPhi] sq. as [2.6244].

The Mars Pentad [26.5] degree angle squared = [702.25],
which is an obvious correlation to the Dresden codex [702].
The [702] is constant of desire but sometimes the exact [26.5] squared yields the desired results.
[702] x [aPi or 22/7] = [2206.285], and modern Phi [1.618] squared 4 times = [2207].
Take:
[**702.25**] the Mars [**26.5**] squared, then times [**aPi-x or 4/aPhi**] = [**2206.96**] = [**2207**]
[**702.25**] the Mars [**26.5**] squared, then times [**3.1426968 or 4/sqrt1.62**] = [**2206.96**] = [**2207**].
OR: [702.25] x [aPi =3.142857143= 22/7] = Exactly [**2207**.07], thus [**aPi-x**] is closer by a hair.

On Earth we have **13** full moons per year, and **4 weeks of 7 days each = [28] days**.
In the Mars Pentad tetrahedral calendar, the value **[364]** = [**13**] full Earth moons per year x [**28**] days.
But take note! The **Venus sidereal** is exact [**224.7**] days, and using **[364 / by 224 .7] = [1 .62]** = [aPhi]!
In the Mars Pentad math this is [**225**] because **[364 / 225] = closer to true {Phi} = [1.6177777].**
The Venus sidereal at [**225**] also equals approximately 10 x sqrt[3], then x [13] = 225.16
The ultimate coincidence with the **Venus [225]** sidereal comes with ancient Phi.
[aPhi] = [1.62], now take [aPhi] and square it FOUR times to equal [2250], or just off at 2250.23.
Thus ancient Phi squared four times produces 10 times the Venus [225] sidereal.
Or using the exact Saqqara [1 .619834711] squared [4] times = Venus [224 .7] x [10], close [2246.628].

Egyptian and Sumerian [**360**] calendar count gives [12 x 360] =[**4320**]= [**216**] x [20].
The ancient Egyptian Jupiter sidereal count may be [**4320**].
NOTE: Mayan Long Count **[1872000] / [4320] =[433 .3333]= [702 / aPhi] = [4333 .33333]J / 10.**
[**19**] squared = [**361**] AND closely following [**780**] M / [**216**] = [**3. 611111**].
[585] V / [aPhi] = [361 .11111], then / by [433 .3333] = [0.83333] = [585V / 702] = [Phisq. / Pi].

[702] and ancient Phi = [aPhi] = [1.62], and Square Root [1.62]

Mayan [234] = [0.9] x [260] Tzolkin, and [234] / Sqrt[aPhi] = Sqrt [33800] and [338] = [13 x 260].

[702] / Sqrt[1.62] = 551.5432893 = Sqrt[304200], and [3042] = Pyramid Mile [6084 /2].

[702] / Sqrt[1.62] = [551.5432893], then divided by [4333 .33333] J = [0.127279221]
and that **[0.127278221] is exactly 1/10th of Sqrt[aPhi].**

Mars synod **[780]** x 2 = **[1560] = [2.66666] x [585] V, and so note the [156] set.**
[702] / Sqrt[1.62] = [551.5432893], then divided by Sqrt[156] = EXACT Sqrt[1950].
Obviously I am correlating the sqrt[1950] as a function of tetrahedral [19.5] in numeric cycle.

[702] / [1.62] = [433 .33333], or 1/10th the Jupiter sidereal.
[702] / Sqrt[1.62] = [551.5432893], then divided by [aPi = 22/7] = [175.5], then x [4] = [702]
[702] / Sqrt [1.62] = [551.5432893], then / Sqrt[2] = [**390**]
[702] / Sqrt [1.62] = [551.5432893], then / Sqrt[8] = [**195**]
[702] / Sqrt [1.62] = [551.5432893], then / Sqrt[12] = Sqrt[25350], and [25350] = [19.5] x [1300].
[702] / Sqrt [1.62] = [551.5432893], then / Sqrt[5] = sqrt[60840], and [6084] = Pyramid Mile.

Now using numbers from the Saqqara pyramid of 11 and 22 and 14:
[702] / Sqrt[1.62] =[551.5432893], then / Sqrt[11] =[166. 2965588] x sqrt[22] = [780] M synod.

[702] / Sqrt[1.62] = [551.5432893], then / Sqrt[22] = [117 .5894244].
Using [117 .5894244], then times Sqrt[14] = [440], then x [12] = 1 mile in feet.

Mayan Long Count [1872000] / [aPhi = 1.62] = [1155555 .555], then x [225]V = [260000000].

10 x Mars synod = [7800] / [1.62] = [4814 .81481], then / [4333 .3333] = [1.11111] or [10/9]
Mayan Baktun [144,000] / [1.62] = [8888 .8888] or essentially [8/9] = [0.8888888]

TO Finish use: Earth year, Pyramid mile, Leedskalnin numbers [7129 / 6105195],
and a multiple of [260] defined as [2 x 2.6] = [5.2].

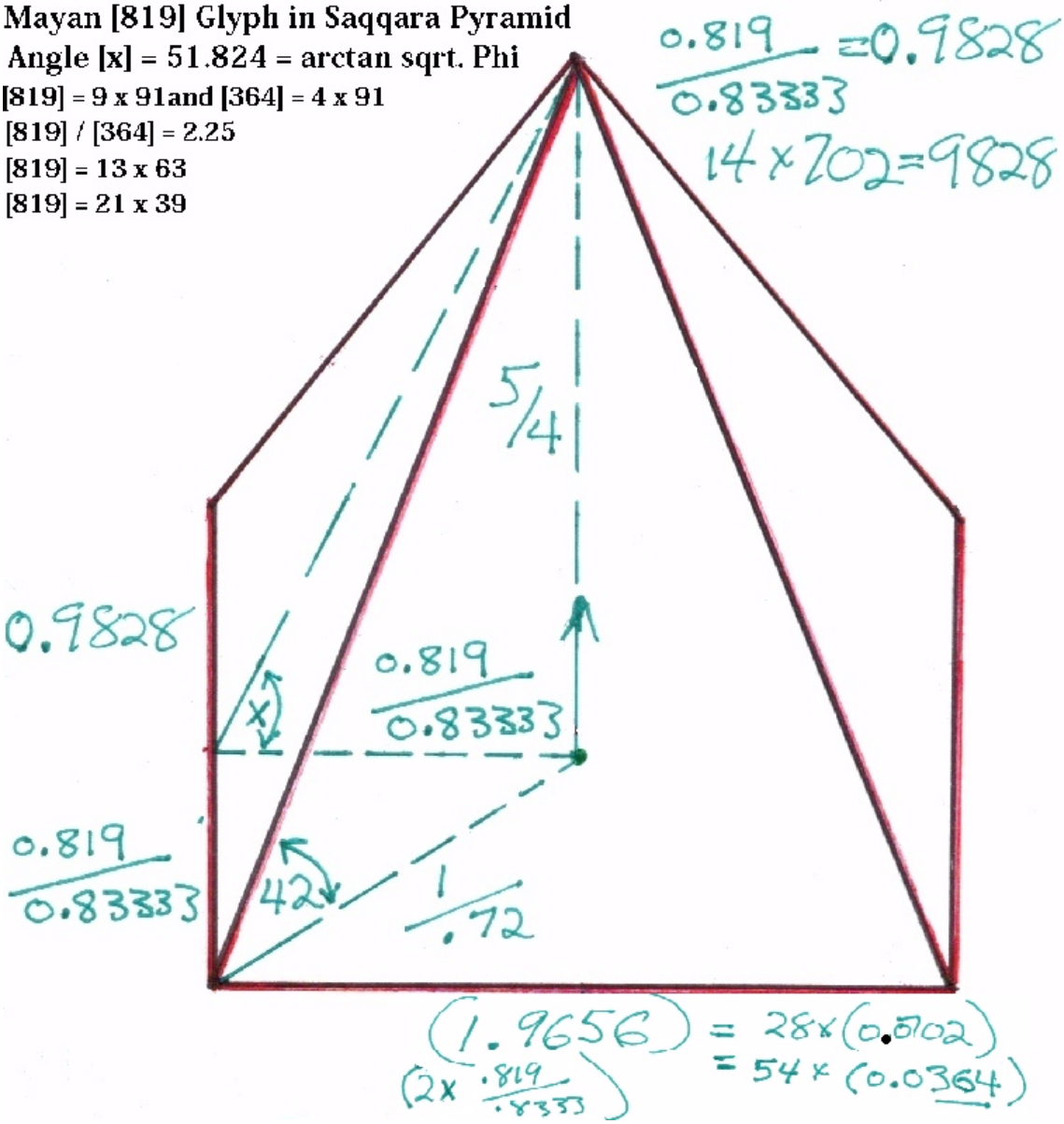
[7129 / 6105195]= [x], then times the Pyramid Mile **[6084], then x Sqrt[5.2] = 10[aPhi].**

[702] / Sqrt [1.62] = [551.5432893] / Earth [365.25] = [1.510043229] = the double sqrt of [5.2].
The actual result is square root [**5.199**45],
but with other evidence found this is a negligible amount of error.

[7129 / 6105195]= [x], then times the Pyramid Mile **[6084], then x Sqrt[5.2] = 10[aPhi].**
The actual result of this is [**16.2**0018], and certainly on the money to [**16.2**] = **10[aPhi].**

[6105195] / Sqrt [5.2] = [x], then / by [6084] pyramid mile = [440], then x 12 = [5280] mile.
Saturn sidereal [10759] / [702] / Sqrt [1.62] = [551.5432893] [19.5], that is[19.507] to be precise.

Mayan [819] Glyph in Saqqara Pyramid
Angle [x] = 51.824 = arctan sqrt. Phi
[819] = 9 x 91and [364] = 4 x 91
[819] / [364] = 2.25
[819] = 13 x 63
[819] = 21 x 39



This pyramid is virtually identical to the Saqqara pyramid studied with height [14],
And a [22] meter square base from which [aPhi] was derived by using the Side Angle.
The Saqqara pyramid Side Angle was quantified to equal [0.9] as arctangent of [42] degrees.
This Saqqara pyramid also conformed to a pyramid of Height =[sqrtPhi], and 2 unit square base.
Then [aPhi] was determined as [1.62] because [1.62] / Sqrt[2] = exactly [0.9].
That Sqrt[2] mentioned is the pyramid base diagonal length Center Point of the base.

Thus this pyramid is developed along the same constructs but using unique Mayan calendar
and Mars Pentad style numerals, in which one extrapolates to find the "Coincident"
closest numbers to the tetrahedral Mars Pentad and Mayan system.
So the pyramid is a hair off of the Saqqara pyramid, but EXACT to modern sqrt[Phi] as slope.
So the exercise is to implicate the capacity of pyramid math with
sacred geometry to represent astronomical and physics applications closely.

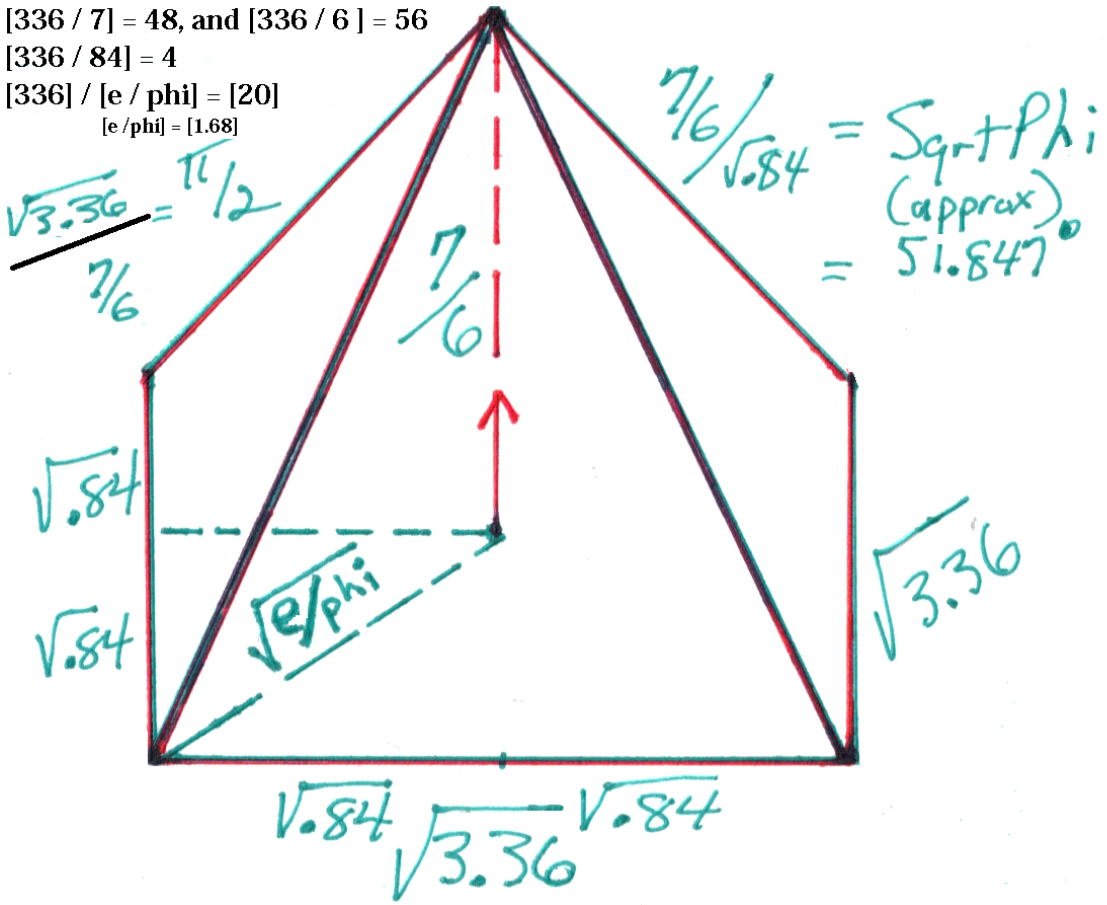
A review of these above pyramid diagram numbers as shown by the decimal variation system:

[0.72] is [72] numeric set, a pentagonal number of importance, and 2 x 72 = [144],
and [72] squared = [5184] coinciding with sqrt [aPhi = 1.62] = tangent [51.84] degrees.
[0.83333] = [585] V / [702] M = [modern] Phisq. / Pi = [5/6]
[819] is an important Mayan glyph that concerned synods coinciding.
The base length [1.9656] is clearly shown to be a function of Dresden Codex [702].

This pyramid using height [1.25] then divided by [0.819 / 0.83333] to get the arctangent,
yields a [51.824] degree side face slope, of which using modern sqrt[Phi] / 1 = arctan[51.827].
Pyramid base corner diagonal to base Center Point = [1 / 0.72].
Thus [5/4] divided by [1 / 0.72] yields the arctan [0.9] of [42] degrees.

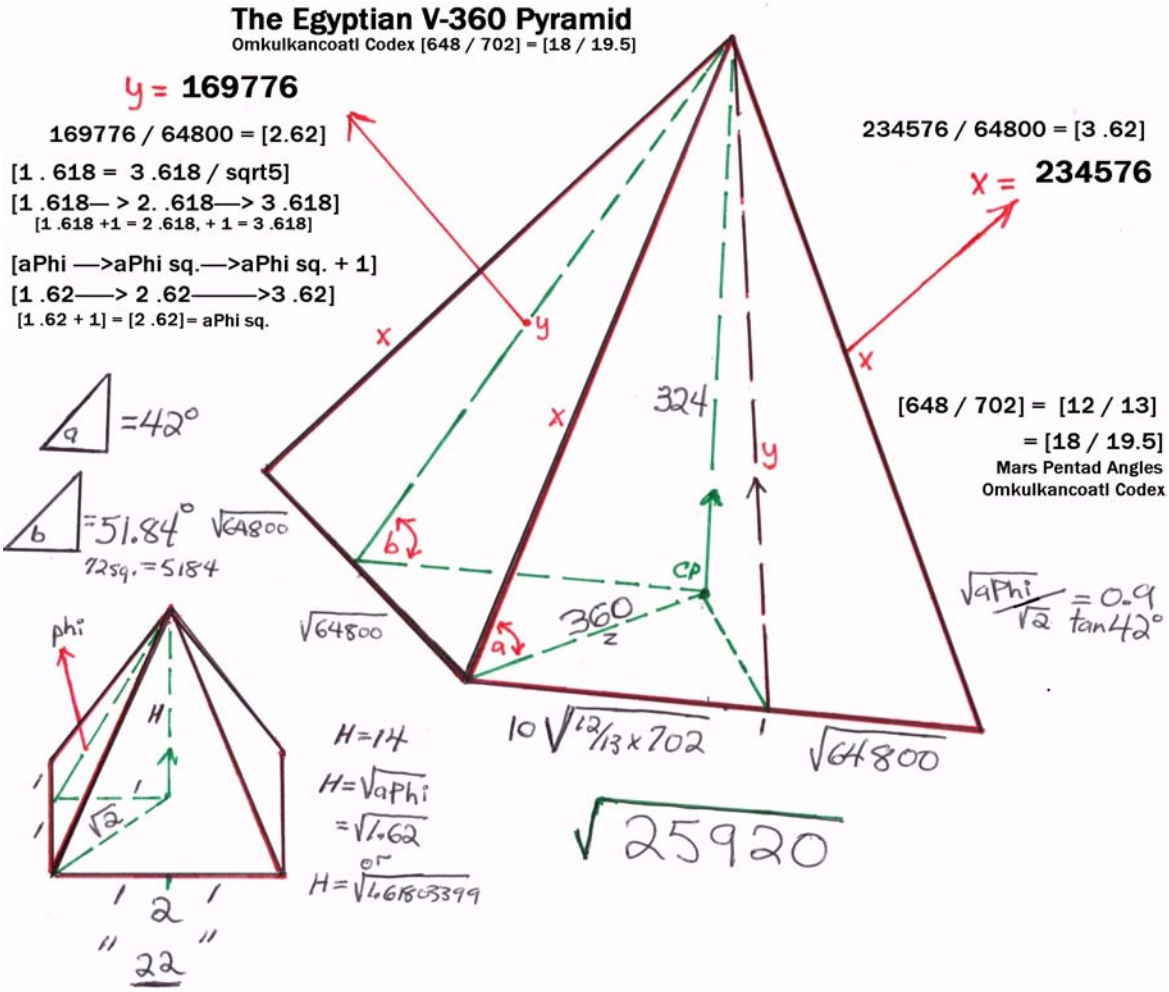
The SITCHIN [7 / 6] Pyramid is identical as well to the Saqqara pyramid.
This idea is to use the Sitchin cylinder seal translation, as Earth as the [7] dots,
and Mars as the [6] pointed Star, utilized as the constant [7/6] = [1.166666].

Sitchin style [7 / 6] Saqqara Pyramid
Note [336] multiples.
[336 / 7] = 48, and [336 / 6] = 56
[336 / 84] = 4
[336] / [e / phi] = [20]
[e /phi] = [1.68]



Note on [336 / 6] = [56], a close decimal variant is Leedskalnin [7129] / sqrt[aPhi] = [5601].
Height [7/6] / by Sqrt[1.68] = tangent [41.99] degrees, and [7 / 6] / by sqrt[0.84] = tan[51.84].

Thus the final Mars Pentad Time Pyramid in this sequence is one that reveals ALL. This pyramid fulfills all the requirements of the Egyptian math with the conversion factor using the Mayan Dresden codex [702] and my original Mars Pentad Time Pyramids Omkulkancoatl Codex as such [648 / 702] = [12 / 13] = [18 / 19.5] Pentad angles.



This is how **The Nine** rules the pyramidal planetary math:
[648 / 9] = [72] and [72] sq. = [5184], and arctangent of sqrt[aPhi =1.62] = [51.84] degrees.
[702 / 9] = [78], and [78] squared = [6084] the pyramid mile.
The [78] also represents the [780] Mars synod, divided by [3] = [260] Tzolkin.

The Nine represented as tangent of [42] degrees = [0.9] x [260] Tzolkin = [234].
[234 / 702] = [0.333333] the sine of tetrahedral [19.47122].
[23.4] squared twice = essentially the Speed of Light in km/sec.
Pyramid mile [6084] / [234] = [26] relating the [260] Tzolkin.

Essentially sqrt[64800] / [234] = the double sqrt of [1.4], and [1.4] = [phi x e], then / by [Pi].
[1.4] double square rooted = **[1.087757306],** then times **[234] = sqrt[64788],** fully 12 off [64800].

Sqrt [64800] = [254.558], and sqrt [64788] = [254.534].
This above equation is off by a factor of [18 / 10,000].
[648] / [aPhi] = [400]

Now to reintroduce the [aPi-x] from the beginning, this is what I called EXACT Egyptian Pi.
This was defined as [**4] / sqrt[aPhi] = [4 / sqrt1.62] = [3.142696]**

From the Saqqara pyramid one gets this as ancient Pi = [aPi] = [22 /7] = [**3.142856143**]
Earlier I pointed out that Egyptian Phi sq followed exact squaring of [aPhi].
It is obvious they used both and recognized both possibilities.
Thus [1.62] squared = [2.2644] in exactness.
The evidence was by using the Egyptian Kemi [12960000] = [3600] squared.
Kemi [**12960000**] / [**2.2644**] = a function of [**2/9**] as [**2222 .22222**] squared = [49382 .71595].

Here it is calculated:
Using [**648**] as a function of sqrt[64800], and found precise using sqrt[Pi] with exact [aPhi]sq.

[**648**] / **[2.6244 = aPhi sq.] = [246.9135802],** now take square root = [**15.71348403**].
[4] / sqrt[aPhi] = [4 / sqrt1.62] = [3.142696] = [aPi-x],
Thus:
10 x [aPi-x] / [2] = exactly [**15.71348403**], ----------→ [**15.71348403**],
10 x [3.142696 / 2] = exactly [**15.71348403**].

It could be perhaps that the Earth year was a bit longer in those days:
Using traditional [aPi] = [22/7] = [3.142857143]
[648] / sqrt[aPi] = [365 .52122965].

So therefore this author found a fun and close Pi value,
to account for the [702] M / [585] V = [1.2] = modern Pi / Phi sq.,
That number is **[3.144].**

[3.144] / [2.62] = [1.2] = modern Pi / Phi sq.
Thus backtracking [**648**] / sqrt[**3.144**] = [**365 .4548562**].

LAST BUT NOT LEAST:
Using modern Pi, ancient Pi as [22/7] = [aPi], or ancient Pi exact as [aPi-x] = [4] / sqrt[1.62],
If you square root any of those THREE TIMES,
And I will use [**aPi**] = [**22/7**] for this:

[**aPi**] = [**22/7**], then square rooted **three** times = [**1.15389311**] = tangent [49.08677] degrees. = [**49 .1**].

The tetrahedral Mars Pentad premier grid that encompasses the Pentad itself,
Is [**2**] by **sqrt[8]** in dimensions, and when using a [**2**] unit height,
this creates the **[2 by sqrt3] triangle** with hypotenuse **sqrt[7]**.
Thus [2 / sqrt3] = the angle arctangent = [**1.154700538**] = the exact above angle of [**49.1**] degrees!

The Teotihuacan Grids Revisited

Some of the equations have already been offered using [aPhi] squared as [2.62].
Here are a selection of other unique **Teotihuacan [15.5] degree** equations.

Note:
Tangent [15.5] x sqrt[**13**] = [1]
Sine [15.5] x sqrt[**14**] =[1]
So above we get the [13] and the [14] by virtue of [13 x 28] = [**364**], and [14 x 26] = [**364**]

Now look at the Tzolkin [**260**] = [**13**] x [**20**],
Therefore what we need is the [**20**], [**26 or 260**], [**28**] and [**364**] to work as well.

[20] / tangent[15.5] = sqrt [5200],
and the winner is: **sqrt[20] / tangent[15.5] = Sqrt[260] Tzolkin**

Sqrt [28] / tangent[15.5] = Sqrt[364]

[260] Tzolkin / [364] = [1.4] = [phi] x [e], then divided by **[Pi]**

Leedskalnin [6105195] / [1.4] = [4360853 . 571],
take [4] square roots of that above number to = [2.6], obviously correlating the [260] Tzolkin.

Those are the main cycle derivations, here are some more to accompany the evidence.

Sine[**15.5**] x Sqrt[**7**] = [0.**707**046] obviously corresponding to Sqrt[2] / 2, or sine and cos [45] degrees.
Tan[**15.5**] x [**260**] Tz = sqrt[5199], or coincident to [5200] = [20 x 260].

[0.833333] = [585]V / [702]M,
[8.333333] sq. = [69.44444], then / by [**260**] Tz = [**0.2671**], and sine[**15.5**] = [**0.2672**].

[833] exact = sine[**15.5**] x [**108**], and [108] x 5 = [**540**] degree pentagon.

Tangent[15.5] times exact [19.47122061] = [**5.4**], a clear decimal variant of [**540**].

This one is great: Tangent[15.5] x Sqrt[10] =[0.87697721]= tangent [41.25] degrees exact.
The reverse angle is thus [48.75] degrees.
Take that EXACT angle of [48.75] and times [4] = [**195**] exact, correlating the [**19.5**]

Using ancient Pi = [**aPi**] =[22/7] = [**3.142857143**],
Sine[**15.5**] x [**aPi**] = tangent [**40**.02] degrees!
Tangent [**15.5**] x [aPi] = tangent [41] degrees, exact at [41.07]
Tan[15.5] x [aPi] = [0.871591424], now square that twice = tan[30] degrees, exact at [29.989].
Sine[15.5] x [aPi] = [0.839892039], now square that twice =[26.45564742], and squared= [699.9].
This squaring and sqrt process with these produces several more unique angle tangents!

Tan[15.5] x [aPi] = [0. 871591424], now square that THREE times = [0.333]= Sine[19.5].

Sine[15.5] x 10[e / phi] = tangent [25] degrees, exact at [24.98].

108 Mayan dimensions: or [5 x 108] = [540] pentagon degrees.
Sine [15.5] x [108] = [x], then / by Sqrt[3] = [16.6633] or ten times Pentad angles [30/18] = 1.6666.
Sine [15.5] x [108] = [x], then times by Sqrt[3] = [49.99] = [50]
Sine [15.5] x [108] = [x], then / by Sqrt[7] = exact sqrt[119]
There are several.

The Teotihuacan grids use ancient Phi and Phi sq. as such:
[aPhi] = [1.62] and [aPhi]sq = [1.62 +1] = [2.62], just like true Phi does [1.61803399 + 1] = Phi sq.

Mars sidereal in [13] Cosmic Calendar = [13 x 53] = [689]
tan[15.5] x Mars [689] = sqrt [36510] and [36510] is about 100 times Earth [365] day year.

Exact Mercury sidereal is **[87.968 581],**
Tan [15.5] x [87.968 581] = [24.3968] = [20/9 or 2 .22222] squared twice = [24.3865].

These [15.5] Teotihuacan grids will be addressed again in Part 2 of this document.

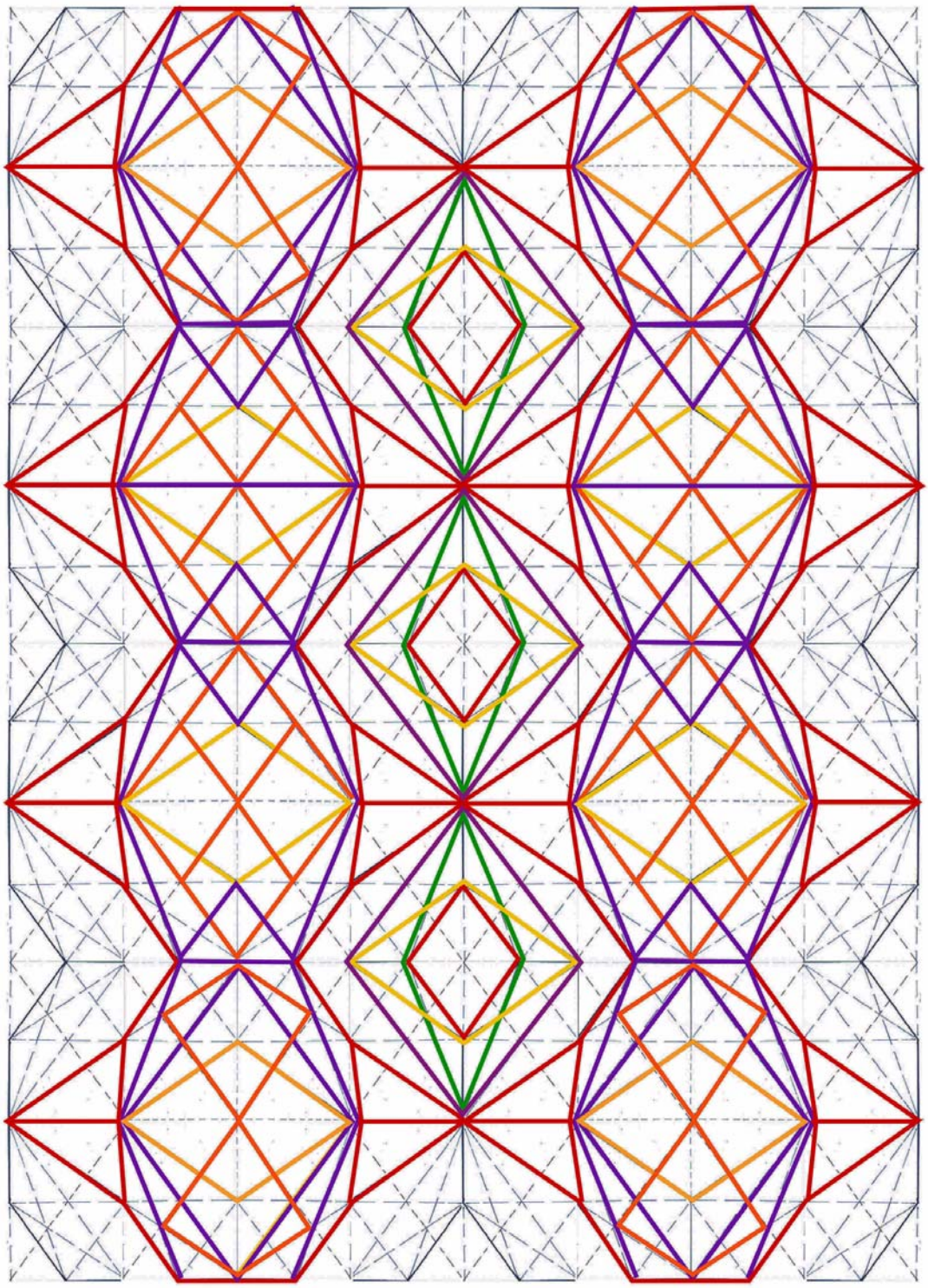
A Couple of notes: [7.2] squared = [51.84], and Sqrt[aPhi] = tangent slope [51.84]
But the THIRD Sqrt of [7.2] = [1.279872071] = tangent of 51.998 or [**52**] degrees!
AND [**17 /9**] squared 3 times = [**162**.05], or ten times [aPhi].

End of part I

Part II will be released later with more of everything to include further analysis:
Of the Aztec [378],
The Planet X sidereal, [3600] or [3661]?
The Leedskalnin mystery numbers, [7129 / 6105195],
The Teotihuacan [15.5] degree grids,
And whatever more I may find till then.

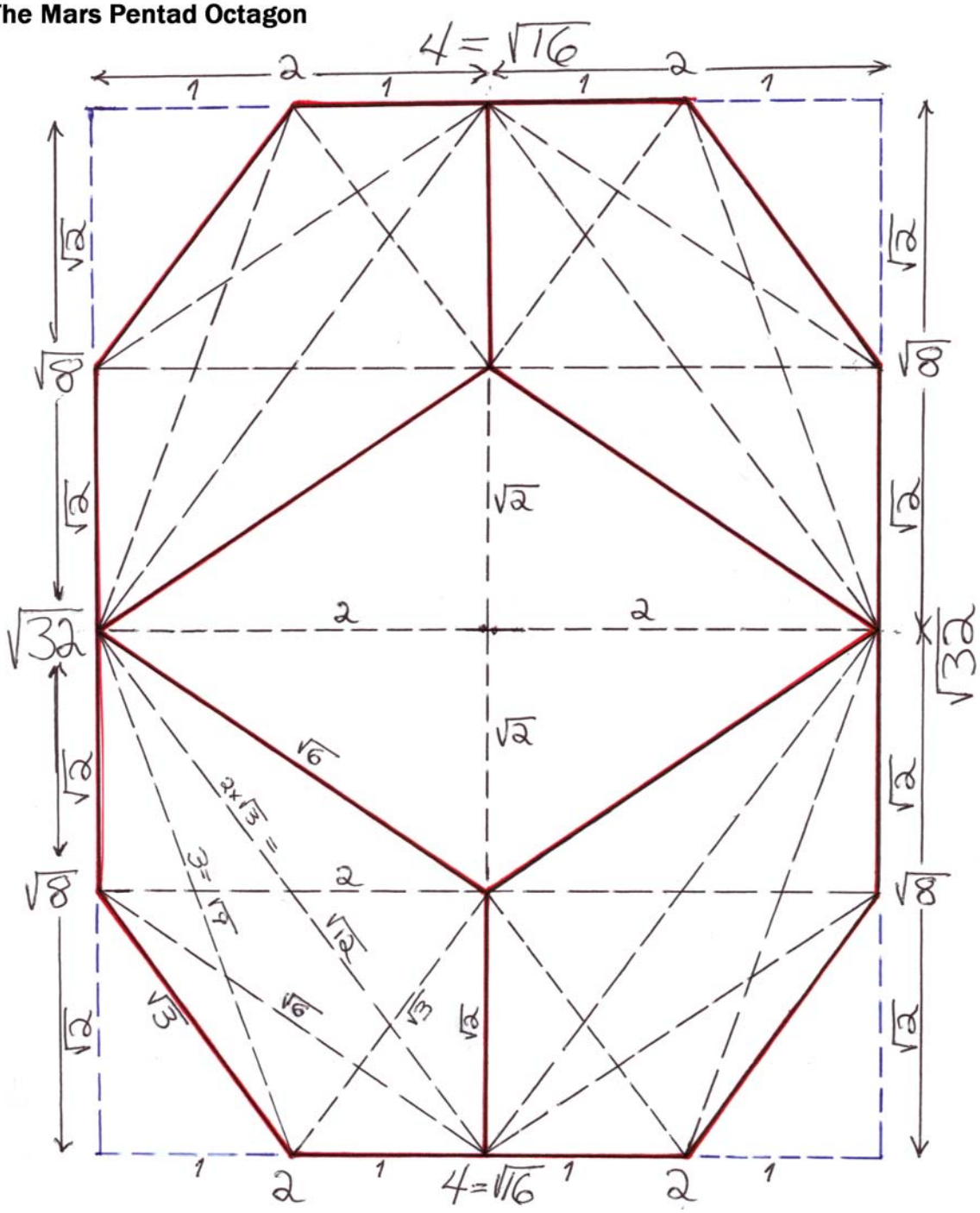
None of this work revealed here would have been possible without the excellent work of:
Dr Horace Crater of UTSI, whose Mars Pentad work revealed to me the angle sets:
[19.5, 26.5, 18 and 30], from the Mars Pentad which created my Omkulkancoatl Codex,
which is at the end of my first pdf..
Also the Mayan Dresden Codex [702], the Mayan long Count [1872000],
the Mayan Tzolkin [260] and the Mars synod [780].
Acknowledgements
1. **Dr Horace Crater of UTSI and SPSR.**
2. **Keith Laney and his Hidden Mission Forum that brought the right people together.**
3. **Richard Bartosz whose support, insights and efforts were unparalleled.**
4. **Melinda Laudy for technical and intuitive support in offering research vectors.**
5. **Gerald Ranells the Wook, for technical support in offering research vectors.**

6. A Mars Pentad Tile

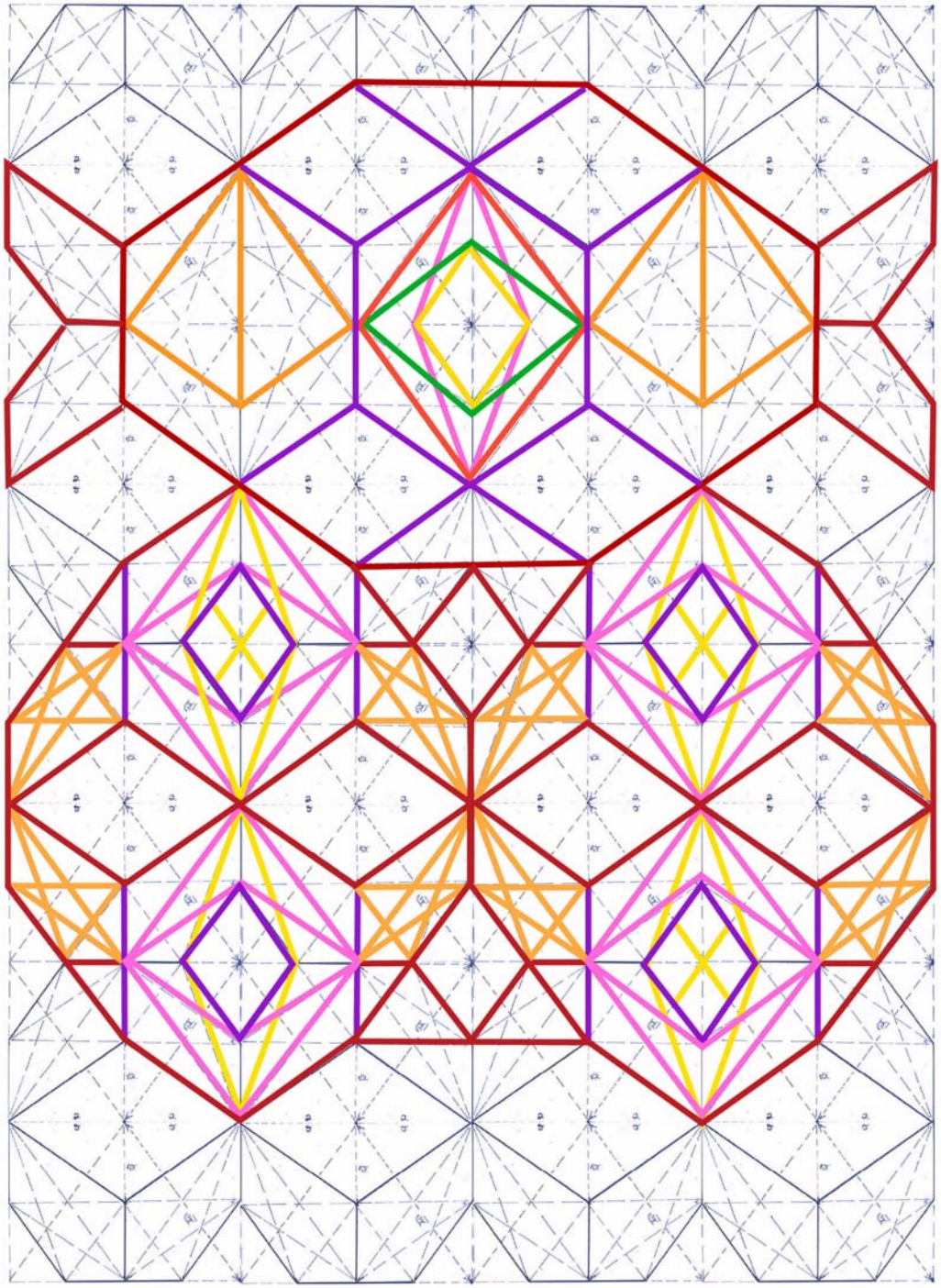


The Pentad Octagon

The Mars Pentad Octagon

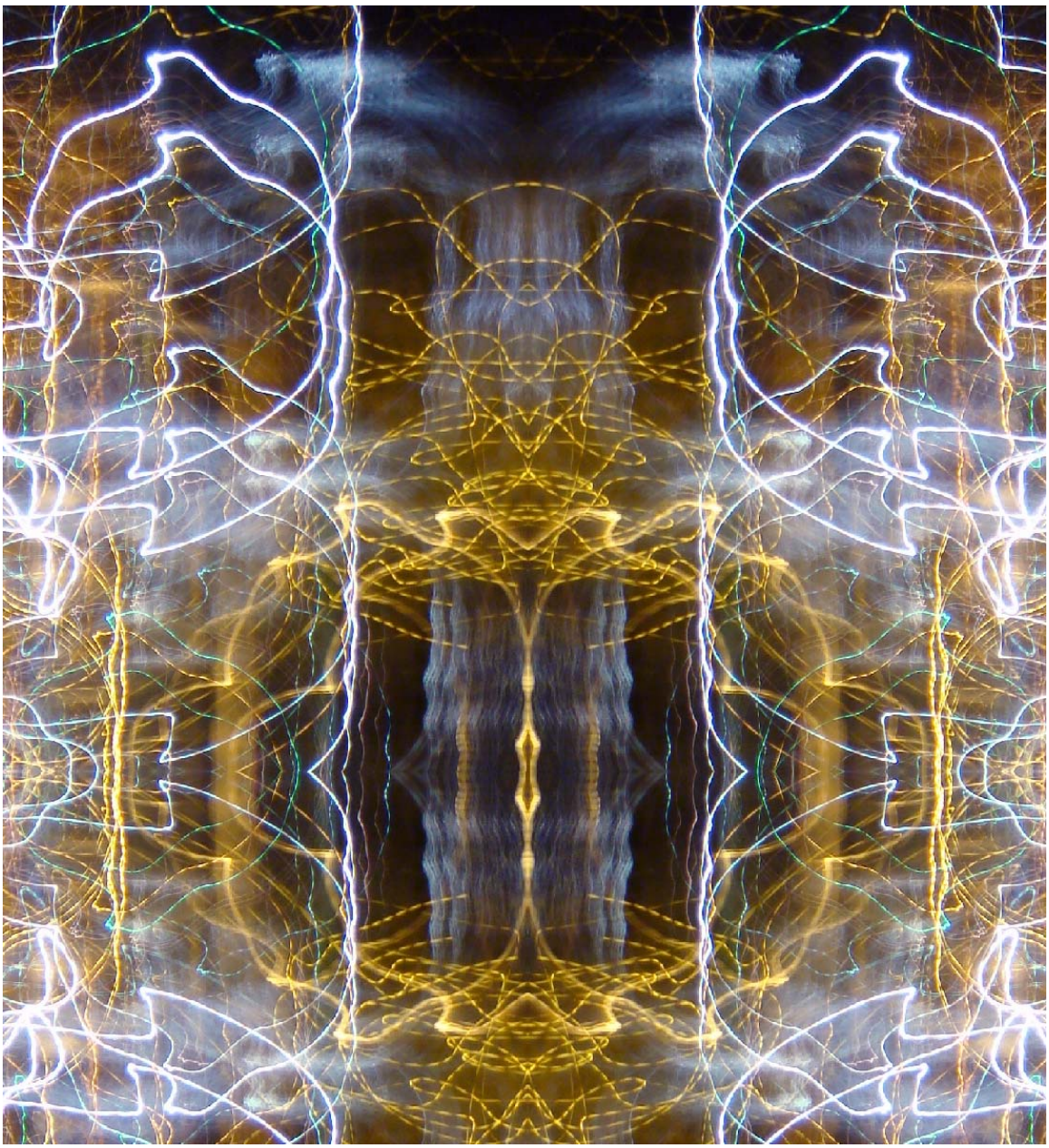


The Pentad Octagon Grid

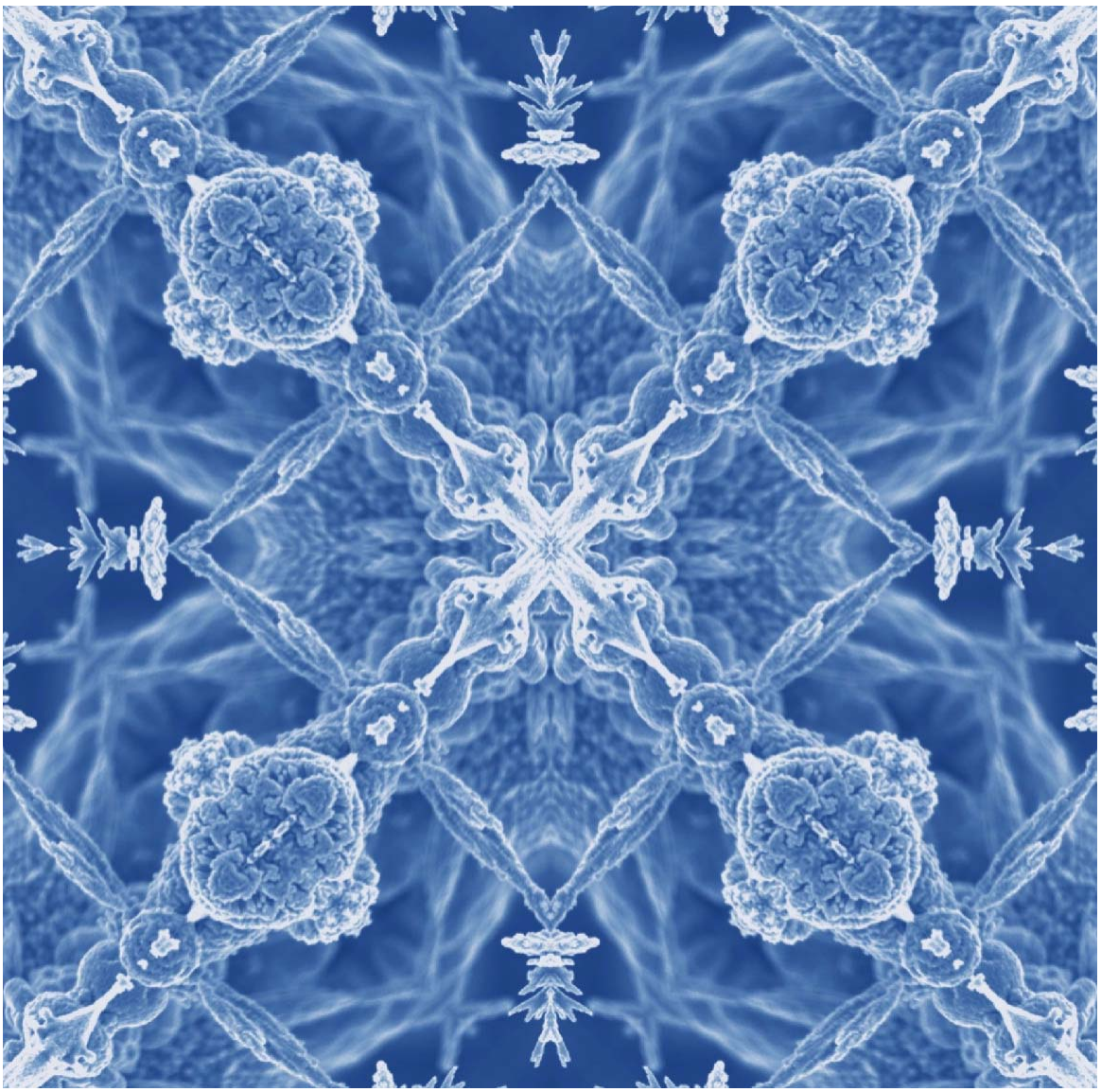


Note:two side by side vertically oriented decagons in red ion lower half of color exposure!

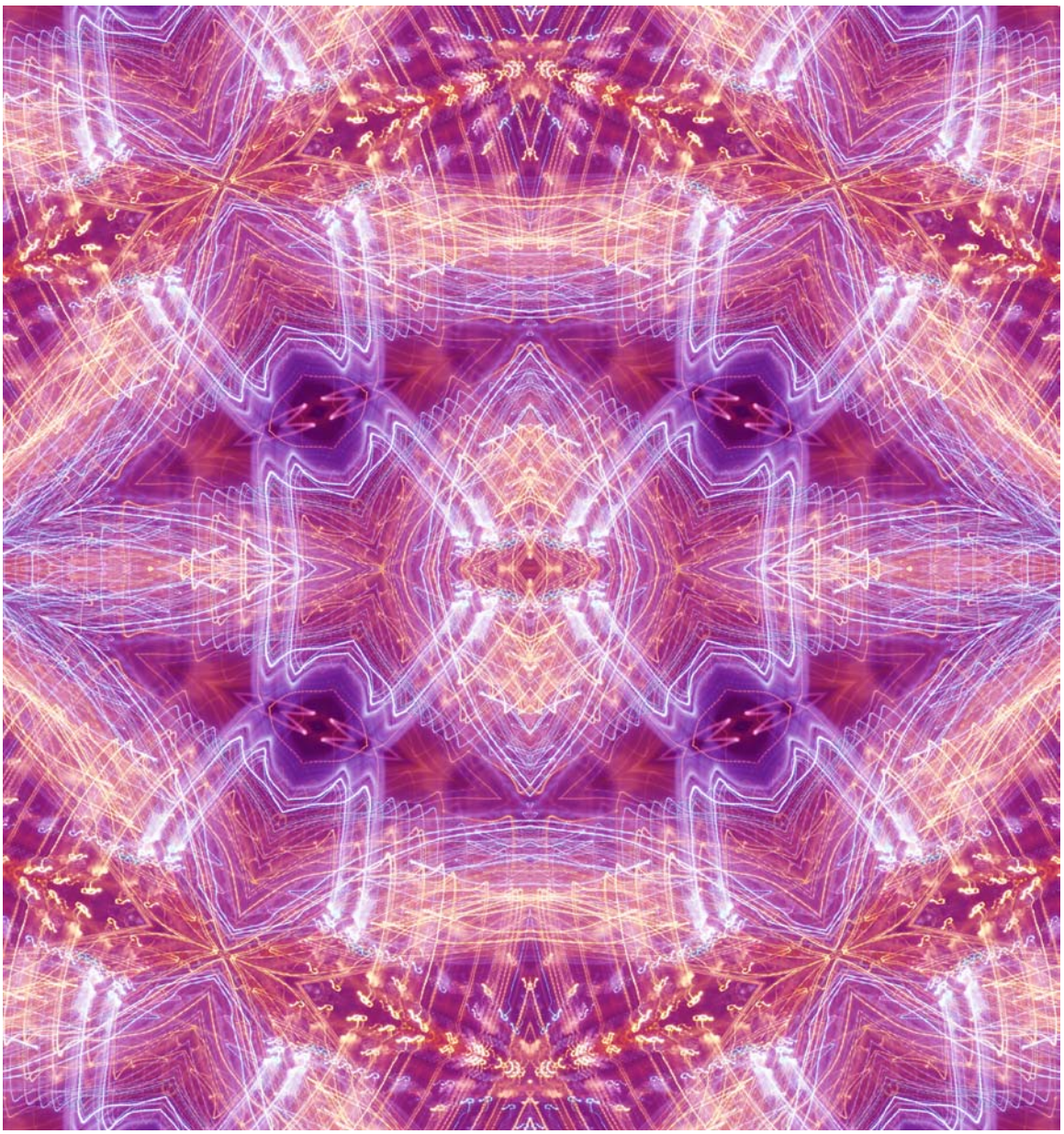
Electro Luminescent Light Energy in Fractal Grid Exposure



Nano Silicon Carbide in recreated in Pentad Tile form



Sonoluminesent Grid inspired by Pentad Tile constructs



All art is original by the author and does not use fractal programs.

These are highly suggested reference links to aid the reader in this document.
The newly proposed [702] Mayan Mars sidereal,
and [707] day Mars "average" observable sidereal,
and the 780 days Mars synod are explained,
in these math science links.
http://www.sciencenews.org/articles/20010310/mathtrek.asp
http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=29390

Dr. Crater's Mars Pentad study

Mounds of Cydonia, Case Study for Planetary SETI
http://www.scribd.com/word/download/91742?extension=doc

Appendix 1: Excerpts from the first Mars Pentad Time Pyramids pdf

To give the reader some background and to facilitate futher understanding of
DECIMAL VARIATIOJS IN NUMERIC SETS:

First the Omkulkancoatl Codex Angles and the [16.5] anglle and Mars sidereal:

These angles of which are as such in predominance order,
ten [19.5], five [26.5], two [18] and two [30] degree angles.
IMMEDIATELY the Coincidence factors abruptly appear
with these angles and the [260] Tzolkin, using the [26.5] degree angle and Mars!
as thus:
Take [2] x [26.5] = [53]
Mars is thus [13] x [53] = [689] days.
……[689] / [260] Tzolkin = [2.65].
Amazing as coincidence with the [26.5] degree angle isn't it?

There are FIVE [26.5] degree angles in the Cydonia Mounds.
[5] x [53] = [265]…….[13] x [53] = [689] day Mars sidereal.
The equatorial radius of Mars is [3397] km.
"Numeric Set" that as a decimal, [0.3397] x [780]M synod = [265],
or excruciatingly close enough at 264.966.
These are NOT coincidences. What ever created the Pentad mounds,
did so with Intent, and that is why the predominant angle sets exist there
in the triangular geometries, and they also follow the Tzolkin style math.

And with the Tzolkin [260] as numeric set [26],
[26] x [26.5] = 689 Mars sidereal in the [13] Cosmic Calendar,
[26] x the [30] degree angle in the mounds = [780] Mars synod.
[19.5] x [30] degree angles in the mounds = [585] Venus synod.
[26 x 27] = [702] M = [13 x 54] = [26.5] squared.
This is the beginning of a "stacking" of evidences providing an overwhelming proof
of statistical numeric constants and coincidences, that go far beyond "Chance".

Now the Jupiter sidereal,
[13] x [333.33333] = [4333.33333]
……[4333.33333] / [260] Tzolkin = [16.666666],
and thus the Pentad-12 Mounds angles [30] / [18] = [1.6666666].
These are matching "numeric sets" as [166666],

and “Numeric Sets” are explained fully just ahead a few paragraphs.
Another fine example of numeric set or sequence inter relationships,
and Tzolkin connectivities, Is the [780] day Mars synod numeric set defined as,
[.078], [.78], [7.8], [78], [780], [7800],
and one can thus follow this two ways,
[780] Mars synod x [4333.3333] Jupiter sidereal = [338,000] = [1300] x [260] Tzolkin.
[.78] Mars “numeric set” x [4333.3333] J =……...[3380] equals [13] x [260] Tzolkin.

A profound indicator of how these angles correlate and “Codex” with each other,
which is examined at length in the final conclusion progresses like this,

[26.5 / 19.5] degree angles x 780 Mars synod = [1060],
then that……[1060] x [585] Venus synod = [620100],
and [620100] / [18] degree angle = [34450],
and……[34450] / [5] as the Pentad = [6890],
and that [6890] is One Hundred Mars [689] day sidereal!

One last direct correlation between MAYAN MARS,
and the Jupiter - Mercury cosmic relationships.
Reading the links offered at the beginning of this document,
one sees from the Mayan Dresden Codex,
that the Mayans used [702] days as a calculative sidereal for Mars.
This is unique in the relationship with the Mars and Earth synod of [780] days.
This is shown to be:
[9] x [78] = [702] Mayan Mars sidereal,….and [26.5] squared = [702] Mayan Mars,
[10] x [78] = [780] Mars synod with Earth.

So take the Tzolkin [260] and divide by the Mayan Mars [702],
[260] Tzolkin / [702]M = [.37037037037]…….[**0.37037037037],**
Jupiter [4333.3333] sidereal / [117] Mercury and Earth synod = **[37.037037037**],
This indicates the intricate “numeric set” relationships between the planets,
and the Mayan Tzolkin [260].

[702] Mayan Mars sidereal / [360] degrees in a circle = [1.95]…correlates the [19.5] angle,
and all these examples above are not accidental coincidences in the math.
In the JBIS-UTSI Cydonia document posted above here as a reference,
the computer statistical test of one million chances found the [19.5] angle
in 36000 examples, and [19.5] x [36000] = [702000] or 1000 x [702] Mayan Mars.
It is my opinion that the Mayans may have known that there was civilized life on Mars
at some point in Mars history, and they adapted the [702] as a constant
not only for astronomical calculations,
they also understood the tetrahedral and pyramidal mathematical nature
of Mars and Jupiter in particular, and how that extended to the inner five planets.

[780] Mars synod / the [18] degree angle = [43.33333], then x [19.5] = [845],
[780]M / [845] = [12 / 13] and that = [18 / 19.5] degree angles.
[845] days later in this document is proven to be the synod of Mars and Jupiter as **[845]MJ**,
when Mars is in the [707] day sidereal referenced to at the top of the document.
Now watch how this operation with the Jupiter sidereal performs:
{4333. 333333} J / [19.5] = [222.22222],
{4333. 333333} J / [13] = [333.33333],
and then those divided,
[222.22222] / [333.333333] = **[.666666666]**, or 2 x [.3333333],
and **[.66666666**] squared = **[.44444444**],
and that product reveals [.444444444] x [585] Venus synod = [260] Tzolkin!!!!!
[1] / [225] Venus sidereal = [.0444444],

This leads directly now to Table 1:
780M is the label for the 780 day synodic of Mars in this study.
The Tzolkin Calendar is [20] x [13] = [260]
[13] x [60] = 780M and [20] x [39] = [780]M

TABLE 1
Extrapolating the [13]
780M = 10 x 78.....702 =9 x [78]
780M = 60 x 13.....=[20] x [39]=.... 40 x 19.5.....=10 x [78]= {4 x 19.5}
78 =.....6 x 13..... 2 x 39.....39 = {3 x 13} ...= .....{2 x 19.5}
780M= .....60 x 13
780M / 5 = 156 =12 x 13.....=2 x 78.....…12 x 13
780M / 12 = [65]= 5 x 13.....5 x 13
780M / 13 = [60]
.....….....[60] x [65]..... =3900=.....{13 x 300}...= {200 x 19.5} and [780]M x [5],
.....….....[20] x [39] ....=780M=....13 x [60].....= {40 x 19.5} =....{26 x 30}
5 x 12 = ...[60] minutes

The value of the [13] becomes quite apparent immediately in the math functions.
Also to note is this: **[19.5] x [33. 333333] = [650] or [10] x [65], and [12] x [65] = 780M**
[20] is the vigesimal base of calendars by the Maya and Olmec ancient civilizations,
as the [260] Tzolkin later developed in Mayan spiritualities,
and the [9] is also important in Mayan spiritual math,
which I have utillized for the “Circle of 9” graphs and extrapolations in the Appendix ,
as the 9 lords of the underworld or 9 levels of consciousness,
sometimes also the 9 Lords of Creation.
[9] x [260] = [2340] then divide by [780] Mar synod = [3]….x [260] = [780]M,
and……[2340] / [4333.33333] Jupiter sidereal = [.54]….540 degrees in a pentagon,
and thus using the Mayan Mars sidereal of [702] = [54] x [13],
[13] x [9] = [117] Mercury synod.

This coincidence study searches for repeating "Numeric Sets",
and for repetitions of key numbers and angle sets found within the Pentad and 12 mounds
in diverse calculations with the sidereal and synods,
between all the inner planets from Mercury to Jupiter
that uniquely interrelate as indicators of functions of Time quantifications.

Numeric sets like [3] and [6] become [30] and [60],
30, 300, 3000 and on.....or.....60, 600 6000 and on,
or vice versa, [.3] , [.03] , [.003],.....[.6] , [.06] , [.006]
and these are differentiated from the 3 or 6 becoming an unending decimal.
These would be sets [333] and [666] which go to infinity,
and when they are multiplied by 10 or 100 or 1000 they become
[33.333] and [66.666] to [333.333] to [666.666] as unending decimals.
So an explanation of decimal variations is necessary.

Decimal Variations in Statistical Numeric Analysis
of the Pentad[5] and [12] mounds
from [.195] to 1.95 to 19.5 to 195 to 1950 to [195,000]
or,
20 x 19.5 = [390] x 10 = [3900],
.....[390] x 100 =[39000].... to 390,000 back to [.39] to [.039],
3 x 13 =.....[39] .....3 x 130 = [390].....3 x 1300 = [3900]
13 x 6 = [78] ...13 x 60 = [780]M.....130 x 60 = [7800].....or 78000

{78000} = 100 Mars synod periods
or,
40 x 1950 = {78000} or 100 Mars synods,
400 x 19.5 = [7800] or 10 Martian synods,
and is basically the same derivation factor as a "Numeric Set",
for coincidence statistics study in numeric sets for statistical analysis,
Example: 78, 780, 7800 .....3.25, 32.5, 325.....4 , 40, 400,
i.e. {12 x 12} = [144].....12 x 120 = [1440].....12 x 1200 = [14400]
or,
{.33333333} x10 , x 100 x 1000 are all the same numeric set factor,
or,
when you see [.00648] as the ellipticity of Mars
.....and [.0648] as the ellipticity of Jupiter,...10 x Mars uniquely,
they are a correlative factor or comparative extrapolation that works,
and this is not coincidence, they are Numeric set [648].

Thus [.6 or 6 or 60] are a common factor of [5 x 12] = 60 minutes,
as in the [5] pentad and [12] mounds.
Another excellent example is this:
702M / 585V = [1.2]….numeric set [12],
702 day "Mayan Mars" sidereal x 10 = {7020}
{7020} / 585 day Venus synod = [12],and so that set is [12] and on to 120,000+.

Here is another example like the above:
780M / 585V = {1. 333333},……..780M x 10 = {7800},
{7800} / 585V = {13. 33333} and the numeric set is [1333] to infinity.

Another fascinating example is:,,.....[585]V numeric set.
225 V sidereal x 260day Tzolkin Earth calendar = [58500}...= 585V x 100 synods.
225V x 360 day Haab civic calendar = [81000],
81000 = [3 x 30] x {[30] squared} = [81000]……../ [9] = 9000,
and there is also a correlation to the [30] degree angle in the mounds.

585V / 5 Pentad = {117} is attributed for the Mercury synod because 117 = {9 x 13},
117Me / [20] = {5.85}....x 100 = 585 V.

When a derivation yields the decimal like [.468] for example,
it can be interpreted as the 468 whole number,
or distinctly as the numeric set [468] in statistical numeric set correlations.
[468] is the no.6 position on the 780M Circle of 9 graph,
6 x 78 = [468]
.....[468] / 780M = [.6].....numeric set [6].....[60] = 5 x 12, on to [600],
[600] / 780M = [.769230769] = [1 / 1.3].

Vic Showell {C} November 2008