Expanded Tertiary Tree of Primitive Pythagorean Triples: UPPER Pythagoras BRANCH																													
	Expanded Tertiary Tree of Primitive Pythagorean Triples:												UPPER Pyinagoras BRANCH																
								AEVEN	<i></i>				Iri													—			
<u>TRUNK</u>	<u>PPT</u>	а	Δа	b	Δb	С	Δc	a or b - EVEN a or b	(∑a+b +c)÷a= r _{next}	r	Δr	Δr ÷ 2	r² ÷ 4	Δr ² ÷ 4	S	t	Δt	2c ²	t ÷ 2	Α	A ÷ 6	ΔΑ ÷ 6	Р	ΔΡ	ΔΡ	f [∫ f p	$U \div c = p$	Δp Δ ÷ p 4
1	3-4-5	3		4		5			4	2			1		1	2		50	1	6	1	1	12			1	0	1	
	1st-14th UPPER Tertiary Branches																												
UPPER TERTIARY BRANCH	<u>PPT</u>	а	Δа	b	Δb	С	Δc	ΔEVEN a or b - EVEN a or b	(∑a+b +c)÷a = r _{next}	r	Δr	∆r ÷ 2	r² ∻ 4	∆r² ÷ 4	S	t = (a+c) previous	Δt	2c ²	t ÷ 2	Α	A ÷ 6	ΔA ÷ 6	Ρ	ΔΡ	ΔΡ	f [Δ If f- p	$U \div c = p$	Δp Δ ÷ p 4
1	5-12-13	5	2	12	8	13	8	8	6	4	2	1	4 =2 ²	3	1	8	6	336	4	30	5	4	30	18		7 (52	5	4 1
2	7-24-25	7	2	24	12	25	12	12	8	6	2	1	9=3²	5	1	18	10	1250	9	84	14	9	56	26	8	17 1	0 4	13	8 2
3	9-40-41	9	2	40	16	41	16	16	10	8	2	1	1 6= 4²	7	1	32	14	3362	16	180	30	16	90	34	8	31 1	46	25	12 3
4	11-60-61	11	2	60	20	61	20	20	12	10	2	1	25 = 5 ²	9	1	50	18	7442	25	330	55	25	132	42	8	49 1	8 8	41	16 4
5	13-84-85	13	2	84	24	85	24	24	14	12	2	1	36=6 ²	11	1	72	22	14450	36	546	91	36	182	50	8	71 2	2 10	61	20 5
6	15-112-113	15	2	112	28	113	28	28	16	14	2	1 4	19=7 ²	13	1	96	26	25538	48	840	140	49	240	58	8	97 2	6 12	85	24 6
7	17-144-145	17	2	144	32	145	32	32	18	16	2	1 (64 =8 ²	15	1	128	30	42050	64	1224	204	64	306	66	8 1	27 3	0 14	113	28 7
8	19-180-181	19	2	180	36	181	36	36	20	18	2	1	31 =9 ²	17	1	162	34	65522	81	1710	285	81	380	74	8 1	61 3	4 16	145	32 8
9	21-220-221	21	2	220	40	221	40	40	22	20	2	1 1	00=10 ²	19	1	200	38	97682	100	2310	385	100	462	82	8 1	99 3	8 18	181	36 9
10	23-264-265	23	2	264	44	265	44	44	24	22	2	1 1	21=11 ²	21	1	242	42	140450	121	3036	506	121	552	90	8 2	241 4	2 20	221	40 10
11	25-312-313	25	2	312	48	313	48	48	26	24	2	1 1	44=12 ²	23	1	288	46	195938	144	3900	650	144	650	98	8 2	287 4	6 22	265	44 11
12	27-304-303	27	2	420	52	421	56	52	30	20	2	1 1	96=13 ²	25	1	392	50	200450	196	6090	1015	196	870	100	8 (391 5	0 24 .4 2F	365	52 13
14	31-480-481	31	2	480	60	481	60	60	32	30	2	1 2	25=15 ²	29	1	450	58	462722	225	7440	1240	225	992	122	8 4	149 5	8 28	421	56 14
Notes	$ \begin{array}{c} a+b+c=r_{next} \\ a=r+s \\ a=c-t \end{array} \begin{array}{c} a\uparrow \\ b+c=t_{next} \\ a=r+s \\ a=c-t \end{array} \begin{array}{c} a\uparrow \\ b+c=t_{next} \\ b=r+t \\ b=c-s \end{array} \begin{array}{c} b\uparrow \\ c=h+t \\ c=r+s+t \\ c=h+t \\$							P=∑a+b+c = (4A)/r = 2c + r P/a = r _{next}	<i>+c</i> The $\Delta r = \sum s + t_{next} =$ <i>E</i> $\sum s_{next} + t$ is the same as The $\Delta r/2 = 5 - 29 - $ <i>t</i> $\frac{169 - \dots}{169 - \dots}$ and = the <i>p</i> & $3-4-5$. The Δ in $\frac{\Delta P/2}{r = \sqrt{2}st}$ generates the <i>r</i> = (<i>a</i> + <i>b</i>) - <i>c</i> . same 5 - 29 - <i>r</i> ^{\dagger} = 2 169 sequence				by 4 r^2/s as \div f s Δ Δ in t^{\uparrow} ne se D- ence.	4 $t^{2}/2 = st$. $s_{next} = a + c$ $t_{next} = b + c$ $s \div s = \text{constant } 1$ $t^{\uparrow} = 4 + \sum \Delta \text{ and when } \div \text{ by } 2 = 1 - 4 - 9 - 9 - 5$ sequence that defines the BBS-ISL MATE ce.				The Σ of A/6 - A _{next} /6 = r ² /4 _{next} $A = (Pr)/4 = bh/2$ $P = \Sigma a + b + c = (4A)/r = 2c + r$ The Δ in f is the accumulated $\Sigma \Delta + A = (Pr)/4 = bh/2$ $P/a = r_{next}$ The Δ in P is the accumulated $\Sigma \Delta + A = r_{previous}$ On the matrix, a 45° on the matrix, a 45° from p on the AXIS is common the AXIS is COMMON DIAGON, accumulated $\Sigma \Delta + A$ TRIX (BIM) $\Sigma \Delta + B$ $Z = r_{next}$ $Z = r_{next}$ The Δ in P is the accumulated $\Delta + A = r_{previous}$ $\Delta = r_{previous}$ Δ								c s∕ 2 diagonal s a AL to all three RS of a given them.			
Summary	$\frac{1}{2} + 2b + $																												
Table 3a	Key: PPT=Primitive Py <i>The Tree of Pythagorea</i> an intermediary to the Up Using the <i>Expanded Dick</i> the respective PTT by bo $\sqrt{2}$, <i>A</i> , <i>P</i> , <i>f</i> & <i>p</i> values one	Triples branche oper and Lower br kson Method on oth algebra and ge e can see the incr	e; <i>r</i> =eve es from ranches E the BBS eometry. edible w	en # such th the 3-4-5 P of which it i Branch sequ S-ISL Matrix Now, in Ta vay the fund	hat r²/2= PT Trun s a part. Lience fo c, every ble 3a , v amental	st where s, k first into a All PPTs – llows as an PPT Branc ve look at th ISL numbe	<i>t</i> are Fa a 3-part - with no interme h is acc ne overa er seque	ictor Pa main b o repea ediary, countec all NPS ence —	airs; A= oranch, e ats — ar hybrid s d for by t of just o a seque	Area; 4 each of e to be equence the prevone Bra ence th	A=4A which found ce of the vious hat info Copy	rea; 8 furthe d. <i>Pyth</i> he UP Brance seque orms t yright	A=8Ar er bran hagora PER a h. This nce: he ne enti © 2017	rea; f= iches in as first nd LO s is don ere we re BB 7, Regi	b-a= nto 2 disco WER ne by are I S-ISL inald	t-s & f ² =(b-a) ² , nd, 3rd, 4th, overed the UPF , plus some an enlisting the <i>r</i> , ooking at the U Matrix — cert Brooks	as a ² , Tert PER E nazing ; <i>s,t,A</i> , JPPEI tainly	+ b ² = iary Bi granch <i>AA,8A</i> R <i>Pyth</i> comes	ranch sequ ber P f ass agora into p	A + f ² = (8A + es. Each Tert ence, <i>Plato</i> (a attern Seque ociated values as Branches. blay here to for	 f²) - 4 iary fo a centu nces (1 s as se By pa rm a co 	A & U/c llows the ry later) NPS) all en in the rsing ou onsisten	e lead f -value discovered to itself. Table 2 set t the different t NPS link f	P ² A=F ue of it the L eries ences, rom ar	ar/4 & s pre- DWE All th Δ, in nd to	P=4/ deces R Bra ese v the in each	A/r=20 sor, b inch s alues dividu and e	<i>c+r</i> , whereas <i>c</i> ut is actually for sequence. The l are derived dire al <i>a, b, c, r, r²,</i> very PPT on its	<i>=2r+p</i> . rmed as MIDDLE ectly from <i>s, t, 2c²,</i> Branch .