												Table	e 3c													
			E	kpande	ed Tert	iary T	ree c	of Pri	miti	ve P	yth	agore	ean T	riple	S:	MID	DLE d	erived B	RANC	Η						
													Trunk	,											_	
TRUNK	<u>PPT</u>	a	∆ a b	<u>а</u> b С	ΔEVEN a or b - Δ EVEN a c or b	∑a+b+c = r _{next}	r	Δr	∆r ÷ 2	r² ÷ 4	∆r² ÷ 4	S	t	Δt	2c ² = c2c=t _x	2c ² -1 = S _x	$ \frac{\sqrt{2c^2-1}}{z} $ $ \Delta s_x \text{ or } \Delta t_x $	Α	A ÷ 6	A/6 + A _{next} /6 = r ² /4 _{next}	Р	ΔP	ΔΡ ÷ <i>j</i> 2	U÷c = p	Δp	∆p ÷ 4
1	3-4-5	3	4	5		12	2			1		1	2		50 = 5 × 10	49 = 7 ²	7	6	1	36	12		1	1		
										1s	t-9th	MIDD	LE Ter	tiary E	ranches											
MIDDLE TERTIARY BRANCH	<u>PPT</u>	a	∆ b	Δ b C	ΔEVEN a or b - Δ EVEN a c or b	∑a+b+c = r _{next}	r	Δr	∆r ÷ 2	r² ÷ 4	∆r² ÷ 4	S = (a+c) previous	t = (b+c) previous	Δt	2c ² = c2c=t _x	2c ² -1 = s _x	$ \frac{\sqrt{2c^2-1}}{z} $ $ \Delta s_x \text{ or } \Delta t_x $	Α	A ÷ 6	A/6 + A _{next} /6 = r ² /4 _{next}	Р	ΔP	ΔΡ ÷ <i>j</i> 2	U÷c = p	Δp	Δр ÷ 4
1	20-21-29	20	21	29	16 = 4 ²	70	12	10	5	36 = 6 ²	5	8	9	7	1682 = 29×58	1681 = 41 ²	41	210	35	1225	70	58	29 1	5	4	1
2	119-120-169	119	120	169	100 = 10 ²	408	70	58	29	1225 = 35 ²	29	49	50	41	57122 = 169×338	57121 = 239 ²	239	7140	1190	41616	408	338	169 1	29	24	6
3	696-697-985	696	697	985	576 = 24 ²	2378	408	338	169	41616 = 204 ²	169	288	289	239	1940450 = 985×1970	1940449 = 1393 ²	1393	242556	40426	141321	2378	1970	985 1	169	140	35
4	4059-4060-5741	4059	4060	5741	3364 = 58 ²	13860	2378	1970	985	141321 = 1189 ²	985	1681	1682	1393	65918162 = 5741x11482	=	8119	8239770	1373295	48029900	13860	11482	5741 1	985	816	204
5	23660-23661-33461	23660	23661	33461	19600 = 140 ²	80782	13860	11482		48029900 = 6930 ²	5741	9800	9801	8119	33461 x 66922	2239277041 = 47321 ²	477321	279909630	46651605	163143281	80782	66922	33461 1	5741	4756	1189
6	137903-137904-195025	137903	137904	195025	114244 = 338 ²	470832	80782	66922 3	33461	¹⁶³¹⁴³²⁸⁸¹ = 40391 ²	33461	57121	57122	47321	195025 x 390050	76069501249 = 275807 ²	275807	9508687656	1584781270	6 55420693056	470832	390050	195025 1	33461	27720	6930
7	803760-803761-1136689	803760	803761	1136689	665856 = 816 ²	2744210	470832	390050 1	95025	55420693 056 = 235416 ²	195025	332928	332929	275807		2584123765441 = 1607521 ²	1607521	323015470680	5383591178	0 1882672131025	2744210	2273378	1136689 1	195025	161564	40391
8	4684659-4684660-6625109	4684659	4684660	6625109	3880900 = 1970 ²	15994428	2744210	2273378 1		1882 672131025 = 137210 ²	1136689	1940449	1940450	1607521	6625109 x 13250218	93693192 ²	9369319	10973017315470	182883621924	⁵ see r ² ÷ 4	15994428	13250218	6625109 1	1136689	941664	235416
9	27304196-27304197-38613965	27304196	27304197	38613965	22619536 = 4756 ²	93222358	15994428	13250218 (625109	63955 431761796 = 799714 ²	6625109	11309768	11309769	9369319	38613965 x 77227930			372759573255306	3212659554255	51	93222358	77227930	38613965 1	6625109	5488420	1372105
Notes	$\sum a+b+c = r_{next}$	a + c = s _{next} a= r + s a = c - t	$b + c = t_{next}$ $b = r + t$ $b = c - s$	$c = p_{next}$ $c = 2r + p$ $c = r + s + t$ $c = a + t$ $c = a + t$ $c = a + b - r$ $c = U/p$	Δ of EVEN a or b from the NEXT EVEN a or b value = 4 -25-144 -841	= r _{next}		:5—29—16 σ & ΔΡ/2	9—	Dividing r^2 the same a by the r^2 of The Δ in r^2 generates same 5–2 169sequ	as ÷ it f 3-4-5. /4 also the 29—	the UPPER δ The Δ in eith Its square =	& LOWER B ler <i>s</i> or <i>t</i> as o <i>2c²-1</i> column	ranches, e.i ne moves d n and the <i>s</i> v	8 comes from the own the columns value is found in x	a hybrid of the lar e UPPER and 9 th is reflected in $\sqrt{2}$ number of rows b e some x number	he LOWER. 2 <i>c²-1)</i> column. below the <i>s</i> .	The Σ of A/6 + A A = (Pr)/4 = bh/2	$A_{next}/6 = r^2/4_{next}$	ext	<i>P=∑a+b+c</i> =	: (4A)/r = 2c	+ r =r _{next} A f 1		= r _{previous} / 2 ix, a 45° dia e AXIS is a DIAGONAL MEMBERS	agonal to all three of a given
Summary	Finding the NEXT MIDDLE is e Because $\sum a+b+c=\sum = r_{next} = *P$ Knowing $s_{next}=(a + c)_{previous}$, $s_{next}=a=r+s=70+49=119$ $b=a=r+s=70+49=119$ $b=a=r+s=70+49=119$ As $P\uparrow$ by the $\Delta P/2$ = the 5-29-1 From $f = t - s = b - a = 50 - 49 = 50$	we have for $p_{xt} = 20 + 29 = 7$ r + t = 70 + 70 69-985se	the 20—21 - = 49, then t _{ne} 50 = 120 c equence of th	29 : (20+21 ∞t = 50, conf c= r + s + t = e <i>c</i> -value, w	+29) =70 = Firmed by kr 70 + 49 + 5 ve add (2x10	<i>r_{next} = P,</i> w nowing that 50 = 169 to 69) + 70 = 4	vith <i>P=</i> 70 √(2c²-1 o give th 408, cor). We a) = Δs _{x or} e 119 — nfirming	lso kno · Δt _× = 4 120—1 P = a +	w that <i>r</i> 1, <i>t</i> _{next} = 69 NEX 6 <i>b</i> + <i>c</i> =	↑ as Δ = 9 + 4 Ω T MID 119 +	r/2, or Δr ² 1 = 50, as DLE PPT 120 + 16	² /4, follow s does <i>b</i> . 69 = 408.	rs the 5-2 + <i>c</i> = <i>t</i> _{ne} Starting	29-169-985 _{xt} = 21 + 29 = with the <i>P</i> of	sequence of = 50, we can f the 20—21 ·	of the <i>c</i> -valu easily calcu —29 , <i>P</i> = 2c	e, so <i>r</i> + (2x29) late <i>a, b</i> & <i>c</i> : + <i>r</i> = (2x29) + 1	= 12 + 58 = 2 = 70 & * <i>P</i> =	= <i>r</i> next= 70 =	= the <i>r</i> -valu	ue of the	119—12	0—169 PI	νт.	value!
Table 3c	Key: PPT=Primitive Py <i>The Tree of Pythagorean</i> intermediary to the Upper an Using the <i>Expanded Dickso</i> respective PTT by both algeb <i>p</i> values one can se	Triples bran d Lower bra on Method o bra and geo	nches from t anches of wh on the BBS- metry. Now,	he 3-4-5 Pi nich it is a p sequen ISL Matrix in Table 3 0	PT Trunk f part. All PP ace follows , every PP c, we look a	irst into a 3 Ts — with as an inte T Branch at the over	3-part n no repe rmedial is acco rall NPS	hain bra eats — a ry, hybrid unted fo of just	nch, ea are to k d sequ or by th one B I	ach of w be foun ence of e previe r anch s	which f d. <i>Pyt</i> f the U ous B sequer orms th	PPER a ranch. T nce: here ne entire	ranches first dise nd LOW his is do we are	into 2nd covered ER, plus ne by ei looking L Matrix	, 3rd, 4th, the UPPEF s some ama hlisting the <i>I</i> at the MIDE c – certainl	R Branch se azing Numb r,s,t,A,4A,8 DLE derived	Branches. equence, Pl er Pattern A,f associa d Branches	Each Tertiary f lato (a century Sequences (N ted values as s 5. By parsing o	follows the later) disco IPS) all to it seen in the out the differ	lead f -valu overed the tself. Table 2 se rences, Δ ,	ue of its pr LOWER eries . All t in the ind	redecess Branch hese va ividual <i>a</i>	sor, but is sequenc lues are 1, b, c, r,	s actually e. The MI derived d r², s, t, 2 0	formed DDLE E rectly fro ² , 1/2, A,	as an Branch om the