

Table 10: s=49

Table 10: Primitive Pythagorean Triples (PPT) with s=49													
•	• PPT	r	r ² /2	s	t	s+t	(s+t) ²	(s ² + t ²)	U/c	*next c	*next p	*next t	
						√W	W	U					c
•	16-63-65	14	98	2	49	51	2601	2405	65	37	289	65	128
•	36-77-85	28	392	8	49	57	3249	2465	85	29	337	85	162
•	60-91-109	42	882	18	49	67	4489	2725	109	25	389	109	200
•	88-105-137	56	1568	32	49	57	6561	3425	137	25	445	137	242
•	119-120-169	70	2450	49	50	99	9801	4901	169	29	505	169	288
•	133-156-205	84	3528	49	72	121	14641	7585	205	37	569	205	338
	147-196-245	98	4802	49	98	147	21609	12005	245	49			
•	161-240-289	112	6272	49	128	177	31329	18785	289	65	709	289	450
•	175-288-337	126	7938	49	162	211	44521	28645	337	85	785	337	512
•	189-340-389	140	9800	49	200	249	62001	42401	389	109	865	389	578
•	203-396-445	154	11858	49	242	291	84681	60965	445	137	949	445	648
•	217-456-505	168	14112	49	288	337	113569	85345	505	169	1037	505	722
Δ	a=Δ14 b=c=Δ4X _n	Δ14	Δ49X _n		2(X _n) ² all	Δ8X _n =Δ2a			Δ4X _n	Δ4X _n	Δ4X _n	Δ4X _n	2(X _n) ²
	n=5,6,7,...		n=6,10,14 ...		n=3,5,7...	n=(1),2,3...			n=5,6,7...	n=2,3,4...	n12,13,14 ...	n=5,6,7...	n=8,9,10,...
Δ=difference					a _p = previous	a= current	a _n = next						
Summary — —>		<p>Every s=49 PPT can be generated from the initial 3-4-5 PPT. Switching the “s” & “t” pair-sets gives the s=2,8,18,32,... EVEN PPTs and from the s=2, the ODD s=9,25,49,81,... can be generated the same way. ALL PPTs are related back to the 3-4-5 PPT! Disregard the grayed out rows of s=2,8,18 & 32 and all non-Primitive Pythagorean Triples (nPPT) except for the r and r²/2 columns as they are shown to show how the specific s=49 pattern is formed. Refer to Table 3 (s=2) to see how the s=49 PPTs are a derivative. Notice that the spacing between subsequent PPTs now skips not to the next PPT but to the fifth one thereafter, i.e. every sixth one. If “c”=169, it’s “p” value skips past the very next PPT to the fifth thereafter, e.i. to the “c”=505 row. This is a consistent pattern for all s=49. While s=2 pointed to the next PPT row, s=49 points to the sixth next PPT row! As all subsequently larger s-sets will show, each has a similar skip pattern that is a consistent multiplier for that given s-set!</p> <p>Another key pattern is that the “t” values for all PPTs follow a (2,8,18,32),50,72,98,128,162,200,242 sequence (in BOLD) that when divided by 2 gives the (1,4,9,16),25,36,49,64,81,100,121 (in BOLD) sequence — like that of the PD — skipping all those divisible by 49. An EVEN + ODD or ODD + EVEN pattern for “a,b” and “a²,b²” and “s,t” values holds true. Patterns described typically begin with the first s=49 PPT row. Some pattern values also run through the other nPPT and/or s≠49 rows.</p> <p>Notice the s=49 pattern for PPTs runs 2 (BLUE)-1-5 (BLUE),... .</p> <p>Copyright©2014, Reginald Brooks, Brooks Design.</p>											