Table 6: Primitive Pythagaorean Triples (PPT) with s=9													
	. DDT		r²/2			s+t	(s+t)²	(s² + t²)		U/c	*next	*next	*next
		r		s	t	√w	w	U	с	р	С	р	t
•	8-15-17	6	18	2	9	11	121	85	17	5			
•	20-21-29	12	72	8	9	17	289	145	29	5			
	27-36-45	18	162	9	18	27	729	405	45	9			
•	33-56-65	24	288	9	32	41	1681	1105	65	17	149	65	98
•	39-80-89	30	450	9	50	59	3481	2581	89	29	185	89	128
	45-108-117	36	648	9	72	81	5184	5265	117	45			
•	51-140-149	42	882	9	98	107	11449	9685	149	65	269	149	200
•	57-176-185	48	1152	9	128	137	18769	16465	185	89	317	185	242
	63-216-225	54	1458	9	162	171	29241	26325	225	117			
•	69-260-269	60	1800	9	200	209	43681	40081	269	149	425	269	338
•	75-308-317	66	2178	9	242	251	63001	58645	317	185	485	317	392
Δ	a=Δ6 or 12 [a (all)=Δ6] b (all)=c (all) =Δ4X <sub>n</sub>	Δ6 or 12 [a (all)=Δ6]	∆9Xn		$2(X_n)^2$ (all)	$\Delta 2X_n$ (all)			$\Delta 4X_n$ (all)	∆4X <sub>n</sub> (all)	Δ4X <sub>n</sub> (all)	Δ4X <sub>n</sub> (all)	2(X <sub>n</sub> ) <sup>2</sup> (all)
	n=6,7,8,		n=18,22,26 		n=4,5,6,	n=9,11,13, 			n=6,7,8,	n=3,4,5,	n=9,10,11, 	n=6,7,8,	n=7,8,9,
Δ=difference in PPTs s=9		$a_p$ = previous a= current $a_n$ = next											
Summary——>		Every s=9 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 and all non-Primitive Pythagorean Triples (nPPT) except for the r and r <sup>2</sup> /2 columns as they are shown to show how the specific s=9 pattern is formed. Refer to Table 3 (s=2) to see how the s=9 PPTs are a derivative. Notice that the spacing between subsequent PPTs now skips not to the next PPT but to the one thereafter, i.e. every other one. If "c"=65, it's "p" value skips past the very next PPT to the one thereafter, e.i. to the "c"=149 row. This is a consistent pattern for all s=9. While s=2 pointed to the next PPT row, s=9 points to the second next 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! 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 9. An EVEN + ODD or ODD + EVEN pattern for "a,b" and "a <sup>2</sup> ,b <sup>2</sup> " and "s,t" values holds true. Patterns described typically begin with the first s=9 PPT row. Some pattern values also run through the other nPPT and/or s≠9 rows. Notice the s=9 pattern for PPTs runs 2 (BLUE)-1-2 (BLUE)-1-2 (BLUE), Copyright©2014, Reginald Brooks, Brooks Design.											

Table 6: s=9