

Table 2: s=1

Table 2: Primitive Pythagorean Triples (PPT) with s=1													
•	PPT	r	r <sup>2</sup> /2	s+t		(s+t) <sup>2</sup>	(s <sup>2</sup> + t <sup>2</sup> )	U/c		next	next	next	
				s	t	√W	W	U	c	p	c	p	t
•	3-4-05	2	2	1	2	3	9	5	5	1	13	5	8
•	5-12-13	4	8	1	8	9	81	65	13	5	25	13	18
•	7-24-25	6	18	1	18	19	361	325	25	13	41	25	32
•	9-40-41	8	32	1	32	33	1089	1025	41	25	61	41	50
•	11-60-61	10	50	1	50	51	2601	2501	61	41	85	61	72
•	13-84-85	12	72	1	72	73	5329	5185	85	61	113	85	98
•	15-112-113	14	98	1	98	99	9801	9605	113	85	145	113	128
•	17-144-145	16	128	1	128	129	16641	16385	145	113	181	145	162
•	19-180-181	18	162	1	162	163	26569	26245	181	145	221	181	200
•	21-220-221	20	200	1	200	201	40401	40001	221	181	265	221	242
•	23-264-265	22	242	1	242	243	59049	58565	265	221	313	265	288
•	25-312-313	24	288	1	288	289	83521	82945	313	265	365	313	338
•	27-364-365	26	338	1	338	339	114921	114245	365	313	421	365	392
•	29-420-421	28	392	1	392	393	154449	153665	421	365	481	421	450
•	31-480-481	30	450	1	450	451	203401	202501	481	421	545	481	512
•	33-544-545	32	512	1	512	513	263169	262145	545	481	613	545	578
•	35-612-613	34	578	1	578	579	335241	334085	613	545	685	613	648
•	37-684-685	36	648	1	648	649	421201	419905	685	613	761	685	722
•	39-760-761	38	722	1	722	723	522729	521285	761	685	841	761	800
•	41-840-841	40	800	1	800	801	641601	640001	841	761	925	841	882
•	43-924-925	42	882	1	882	883	779689	777925	925	841	1013	925	968
•	45-1012-1013	44	968	1	968	969	938961	937025	1013	925	1105	1013	1058
•	47-1104-1105	46	1058	1	1058	1059	1121481	1119365	1105	1013	1201	1105	1152
•	49-1200-1201	48	1152	1	1152	1153	1329409	1327105	1201	1105	1301	1201	1250
•	51-1300-1301	50	1250	1	1250	1251	1565001	1562501	1301	1201	1405	1301	1352
•	61-1860-1861	60	1800	1	1800	1801	3243601	3240001	1861	1741	1985	1861	1922
•	63-1984-1985	62	1922	1	1922	1923	3697929	3694085	1985	1861	2113	1985	2048
•	65-2112-2113	64	2048	1	2048	2049	4198401	4194305	2113	1985	2285	2113	2178
•	71-2520-2521	70	2450	1	2450	2451	600-7401	6002501	2521	2381	2665	2521	2592
•	73-2664-2665	72	2592	1	2592	2593	6723649	6718465	2665	2521	2813	2665	2738
•	81-3280-3281	80	3200	1	3200	3201	10246401	10240001	3281	3121	3445	3121	3362
•	83-3444-3445	82	3362	1	3362	3363	11309769	11303045	3445	3281	3613	3445	3528
•	85-3612-3613	84	3528	1	3528	3529	12453841	12446785	3613	3445	3785	3613	3698
•	91-4140-4141	90	4050	1	4050	4051	16410601	16402501	4141	3961	4705	4141	4608
•	97-4704-4705	96	4608	1	4608	4609	21242881	21233665	4705	4513	4901	4705	4802
•	101-5100-5101	100	5000	1	5000	5001	25010001	25000001	5101	4901	5305	5101	5202
Δ	a=Δ2 b=c=Δ4X <sub>n</sub> 2a+2 = Σa+a <sub>n</sub>	Δ2	Δ2(X <sub>n</sub> ) <sup>2</sup> =2a		Δ2(X <sub>n</sub> ) <sup>2</sup> =2a	Δ2X <sub>n</sub> =2a			Δ4X <sub>n</sub> =2a+2	Δ4X <sub>n</sub> =2a <sub>p</sub> +2	Δ4X <sub>n</sub> =2a <sub>n</sub> +2	Δ4X <sub>n</sub> =2a+2	Δ2(X <sub>n</sub> ) <sup>2</sup> =2a <sub>n</sub>
	n=(1),2,3,...		n=3,5,7...		n=3,5,7...	n=3,5,7...			n=(1),2,3,...	n=1,2,3,...	n=(1,2),3,...	n=(1),2,3,...	n=(1),2,3,...
Δ=difference				a <sub>p</sub> = previous		a= current		a <sub>n</sub> = next					
Summary -->		Every s=1 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! Copyright©2014, Reginald Brooks, Brooks Design.											