Table 40

PTOP: Distribution and NPS of the PPset Trails

Line #	EVEN # START, E_s	EVEN # END, E_e	Starting "3" PPset	P_2=PRIME	EC=# of EVENs covered	Δ= EVEN Start-End	Δ=2EC-2	Δ=P_2-3	P_2=Δ+3	EC=(Δ/2)+1	EC=(EVEN/2)-2
1	6	6	3+3	3	**1**	0	0	0	3	1	**1**
2	8	10	3+5	5	**2**	2	2	2	5	2	**2**
3	10	14	3+7	7	**3**	4	4	4	7	3	**3**
4	14	22	3+11	11	**5**	8	8	8	11	5	**5**
5	16	26	3+13	13	**6**	10	10	10	13	6	**6**
6	20	34	3+17	17	**8**	14	14	14	17	8	**8**
7	22	38	3+19	19	**9**	16	16	16	19	9	**9**
8	26	46	3+23	23	**11**	20	20	20	23	11	**11**
9	32	58	3+29	29	**14**	26	26	26	29	14	**14**
10	34	62	3+31	31	**15**	28	28	28	31	15	**15**
11	40	74	3+37	37	**18**	34	34	34	37	18	**18**
12	44	82	3+41	41	**20**	38	38	38	41	20	**20**
13	46	86	3+43	43	**21**	40	40	40	43	21	**21**
14	50	94	3+47	47	**23**	44	44	44	47	23	**23**
15	56	106	3+53	53	**26**	50	50	50	53	26	**26**
16	62	118	3+59	59	**29**	56	56	56	59	29	**29**
17	64	122	3+61	61	**30**	58	58	58	61	30	**30**
18	70	134	3+67	67	**33**	64	64	64	67	33	**33**
19	74	142	3+71	71	**35**	68	68	68	71	35	**35**
20	76	146	3+73	73	**36**	70	70	70	73	36	**36**
21	82	158	3+79	79	**39**	76	76	76	79	39	**39**
22	86	166	3+83	83	**41**	80	80	80	83	41	**41**
23	92	178	3+89	89	**44**	86	86	86	89	44	**44**
24	100	194	3+97	97	**48**	94	94	94	97	48	**48**
25	104	202	3+101	101	**50**	98	98	98	101	50	**50**
26	106	206	3+103	103	**51**	100	100	100	103	51	**51**
27	110	214	3+107	107	**53**	104	104	104	107	53	**53**
28	112	218	3+109	109	**54**	106	106	106	109	54	**54**
29	116	226	3+113	113	**56**	110	110	110	113	56	**56**
30	130	254	3+127	127	**63**	124	124	124	127	63	**63**
31	134	262	3+131	131	**65**	128	128	128	131	65	**65**
32	140	274	3+137	137	**68**	134	134	134	137	68	**68**
33	142	278	3+139	139	**69**	136	136	136	139	69	**69**
34	152	298	3+149	149	**74**	146	146	146	149	74	**74**
35	154	302	3+151	151	**75**	148	148	148	151	75	**75**
36	160	314	3+157	157	**78**	154	154	154	157	78	**78**
37	166	326	3+163	163	**81**	160	160	160	163	81	**81**
38	170	334	3+167	167	**83**	164	164	164	167	83	**83**
39	176	346	3+173	173	**86**	170	170	170	173	86	**86**
40	182	358	3+179	179	**89**	176	176	176	179	89	**89**
41	184	362	3+181	181	**90**	178	178	178	181	90	**90**
42	194	382	3+191	191	**95**	188	188	188	191	95	**95**
43	196	386	3+193	193	**96**	190	190	190	193	96	**96**
44	200	394	3+197	197	**98**	194	194	194	197	98	**98**
45	202	398	3+199	199	**99**	196	196	196	199	99	**99**
46	214	422	3+211	211	**105**	208	208	208	211	105	**105**
47	226	446	3+223	223	**111**	220	220	220	223	111	**111**
48	230	454	3+227	227	**113**	224	224	224	227	113	**113**
49	232	458	3+229	229	**114**	226	226	226	229	114	**114**
50	236	466	3+233	233	**116**	230	230	230	233	116	**116**
51	242	478	3+239	239	**119**	236	236	236	239	119	**119**
52	244	482	3+241	241	**120**	238	238	238	241	120	**120**
53	254	502	3+251	251	**125**	248	248	248	251	125	**125**
54	260	514	3+257	257	**128**	254	254	254	257	128	**128**
55	266	526	3+263	263	**131**	260	260	260	263	131	**131**
56	272	538	3+269	269	**134**	266	266	266	269	134	**134**
57	274	542	3+271	271	**135**	268	268	268	271	135	**135**
58	280	554	3+277	277	**138**	274	274	274	277	138	**138**
59	284	562	3+281	281	**140**	278	278	278	281	140	**140**
60	286	566	3+283	283	**141**	280	280	280	283	141	**141**
61	296	586	3+293	293	**146**	290	290	290	293	146	**146**
62	310	614	3+307	307	**153**	304	304	304	307	153	**153**
63	314	622	3+311	311	**155**	308	308	308	311	155	**155**
64	316	626	3+313	313	**156**	310	310	310	313	156	**156**
65	320	634	3+317	317	**158**	314	314	314	317	158	**158**
66	334	662	3+331	331	**165**	328	328	328	331	165	**165**
67	340	674	3+337	337	**168**	334	334	334	337	168	**168**
68	350	694	3+347	347	**173**	344	344	344	347	173	**173**
69	352	698	3+349	349	**174**	346	346	346	349	174	**174**
70	356	706	3+353	353	**176**	350	350	350	353	176	**176**
71	362	718	3+359	359	**179**	356	356	356	359	179	**179**
72	370	734	3+367	367	**183**	364	364	364	367	183	**183**
73	376	746	3+373	373	**186**	370	370	370	373	186	**186**
74	382	758	3+379	379	**189**	376	376	376	379	189	**189**
75	386	766	3+383	383	**191**	380	380	380	383	191	**191**
76	392	778	3+389	389	**194**	386	386	386	389	194	**194**
77	400	794	3+397	397	**198**	394	394	394	397	198	**198**
78	404	802	3+401	401	**200**	398	398	398	401	200	**200**

x2 x2+1 x2+1

Table 40: PTOP NPS

Tables 38-40: **PTOP**: Distribution and **NPS** of the PPset Trails. EVEN #s START and END are those EVENS starting with a "3" + Prime (P). The **Number Pattern Sequence** (**NPS**) that follows demonstrates that as one progresses sequentially out the sequence of EVENS, the "Trail" of PRIME PAIR sets (PPset) increases at a predictable rate. The overlap of sequential PPset Trails ensures that ALL EVENS are composed of one or more PPsets, proving Euler's Strong version of the Goldbach Conjecture:

all positive even integers ≥4 can be expressed as the sum of two primes.

Note that the EVENS covered by the PPset Trails run very nearly 1/2 of the PRIME value throughout.

Explicitly: let P_1 & P_2 = PPset and E_s = EVEN # START, E_e = EVEN # END within that PPset, then:

$$2P_2 = P_2 + P_2 = E_e = (P_2 - P_1) + (P_1 + P_2) = (P_2 - P_1) + E_s$$

$$P_2 - P_1 = E_e - E_s$$

If $P_1 = P_2$, then $2P_1 = 2P_2 = E_e$, the END of the PPset Trail on that EVEN #.

NPS: The NEXT PPset Trail beginning with "3+P_2" ALWAYS begins, at the EVEN #, with the NEXT P_2 in the prime sequence.

The NPS ONLY WORKS WITH THE EVENS THAT START WITH A "3 + P_2" PPset.

For EVENS with PPsets P_1>3, and P_2≠PRIME, drop to previous P_2=PRIME. P_1 increases to equal the EVEN.

EX: EVEN = 92 starts with 3+89 as $P_1 = 3$, $P_2 = 89$.

EVEN = 94 starts with 5+89 as $P_1 = 5$, $P_2 = 89$. P_2 dropped 1 PRIME steps from 91≠PRIME, P_1 increases 1 PRIME steps.

EVEN = 96 starts with 7+89 as $P_1 = 7$, $P_2 = 89$. P_2 dropped 2 PRIME steps from 93≠PRIME, P_1 increases 2 PRIME steps.

EVEN = 98 starts with 19+79 as $P_1 = 19$, $P_2 = 79$. P_2 dropped 5 PRIME steps from 95≠PRIME, P_1 increases 5 PRIME steps.

EVEN = 100 starts with 3+97 as $P_1 = 3$, $P_2 = 97$.

*See **Table 45: Equations** for the ***Specific*** (above) and ***Universal*** Equations.

The first instance of the Maximal PRIME Gap (Prime gap - Wikipedia) is designated with a gradient fill.