

Table 39

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
78	404	802	3+401	401	200	398	398	398	401	200	200
79	412	818	3+409	409	204	406	406	406	409	204	204
80	422	838	3+419	419	209	416	416	416	419	209	209
81	424	842	3+421	421	210	418	418	418	421	210	210
82	434	862	3+431	431	215	428	428	428	431	215	215
83	436	866	3+433	433	216	430	430	430	433	216	216
84	442	878	3+439	439	219	436	436	436	439	219	219
85	446	886	3+443	443	221	440	440	440	443	221	221
86	452	898	3+449	449	224	446	446	446	449	224	224
87	460	914	3+457	457	228	454	454	454	457	228	228
88	464	922	3+461	461	230	458	458	458	461	230	230
89	466	926	3+463	463	231	460	460	460	463	231	231
90	470	934	3+467	467	233	464	464	464	467	233	233
91	482	958	3+479	479	239	476	476	476	479	239	239
92	490	974	3+487	487	243	484	484	484	487	243	243
93	494	982	3+491	491	245	488	488	488	491	245	245
94	502	998	3+499	499	249	496	496	496	499	249	249
95	506	1006	3+503	503	251	500	500	500	503	251	251
96	512	1018	3+509	509	254	506	506	506	509	254	254
97	524	1042	3+521	521	260	518	518	518	521	260	260
98	526	1046	3+523	523	261	520	520	520	523	261	261
99	544	1082	3+541	541	270	538	538	538	541	270	270
100	550	1094	3+547	547	273	544	544	544	547	273	273
101	560	1114	3+557	557	278	554	554	554	557	278	278
102	566	1126	3+563	563	281	560	560	560	563	281	281
103	572	1138	3+569	569	284	566	566	566	569	284	284
104	574	1142	3+571	571	285	568	568	568	571	285	285
105	580	1154	3+577	577	288	574	574	574	577	288	288
106	590	1174	3+587	587	293	584	584	584	587	293	293
107	596	1186	3+593	593	296	590	590	590	593	296	296
108	602	1198	3+599	599	299	596	596	596	599	299	299
109	604	1202	3+601	601	300	598	598	598	601	300	300
110	610	1214	3+607	607	303	604	604	604	607	303	303
111	616	1226	3+613	613	306	610	610	610	613	306	306
112	620	1234	3+617	617	308	614	614	614	617	308	308
113	622	1238	3+619	619	309	616	616	616	619	309	309
114	634	1262	3+631	631	315	628	628	628	631	315	315
115	644	1282	3+641	641	320	638	638	638	641	320	320
116	646	1286	3+643	643	321	640	640	640	643	321	321
117	650	1294	3+647	647	323	644	644	644	647	323	323
118	656	1306	3+653	653	326	650	650	650	653	326	326
119	662	1318	3+659	659	329	656	656	656	659	329	329
120	664	1322	3+661	661	330	658	658	658	661	330	330
121	676	1346	3+673	673	336	670	670	670	673	336	336
122	680	1354	3+677	677	338	674	674	674	677	338	338
123	686	1366	3+683	683	341	680	680	680	683	341	341
124	694	1382	3+691	691	345	688	688	688	691	345	345
125	704	1402	3+701	701	350	698	698	698	701	350	350
126	712	1418	3+709	709	354	706	706	706	709	354	354
127	722	1438	3+719	719	359	716	716	716	719	359	359
128	730	1454	3+727	727	363	724	724	724	727	363	363
129	736	1466	3+733	733	366	730	730	730	733	366	366
130	742	1478	3+739	739	369	736	736	736	739	369	369
131	746	1486	3+743	743	371	740	740	740	743	371	371
132	754	1502	3+751	751	375	748	748	748	751	375	375
133	760	1514	3+757	757	378	754	754	754	757	378	378
134	764	1522	3+761	761	380	758	758	758	761	380	380
135	772	1538	3+769	769	384	766	766	766	769	384	384
136	776	1546	3+773	773	386	770	770	770	773	386	386
137	790	1574	3+787	787	393	784	784	784	787	393	393
138	800	1594	3+797	797	398	794	794	794	797	398	398
139	812	1618	3+809	809	404	806	806	806	809	404	404
140	814	1622	3+811	811	405	808	808	808	811	405	405
141	824	1642	3+821	821	410	818	818	818	821	410	410
142	826	1646	3+823	823	411	820	820	820	823	411	411
143	830	1654	3+827	827	413	824	824	824	827	413	413
144	832	1658	3+829	829	414	826	826	826	829	414	414
145	842	1678	3+839	839	419	836	836	836	839	419	419
146	856	1706	3+853	853	426	850	850	850	853	426	426
147	860	1714	3+857	857	428	854	854	854	857	428	428
148	862	1718	3+859	859	429	856	856	856	859	429	429
149	866	1726	3+863	863	431	860	860	860	863	431	431
150	880	1754	3+877	877	438	874	874	874	877	438	438
151	884	1762	3+881	881	440	878	878	878	881	440	440
152	886	1766	3+883	883	441	880	880	880	883	441	441
153	890	1774	3+887	887	443	884	884	884	887	443	443
154	910	1814	3+907	907	453	904	904	904	907	453	453
155	914	1822	3+911	911	455	908	908	908	911	455	455

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 P₁ & P₂ = 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 P₁ = P₂, then 2P₁ = 2P₂ = E_e, the END of the PPset Trail on that EVEN #.

NPS: The NEXT PPset Trail beginning with "3+P₂" ALWAYS begins, at the EVEN #, with the NEXT P₂ in the prime sequence.

***The NPS ONLY WORKS WITH THE EVENS THAT START WITH A "3 + P₂" PPset.**
For EVENS with PPsets P₁>3, and P₂≠PRIME, drop to previous P₂=PRIME, the P₁ increases to equal the EVEN.
EX: EVEN = 92 starts with 3+89 as P₁ = 3, P₂ = 89.
EVEN = 94 starts with 5+89 as P₁ = 5, P₂ = 89. P₂ dropped 1 PRIME steps from 91≠PRIME, P₁ increases 1 PRIME steps.
EVEN = 96 starts with 7+89 as P₁ = 7, P₂ = 89. P₂ dropped 2 PRIME steps from 93≠PRIME, P₁ increases 2 PRIME steps.
EVEN = 98 starts with 19+79 as P₁ = 19, P₂ = 79. P₂ dropped 5 PRIME steps from 95≠PRIME, P₁ increases 5 PRIME steps.
EVEN = 100 starts with 3+97 as P₁ = 3, P₂ = 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.

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