

TAB. 1: +1 Pell Equations for generic D: $x^2 - Dy^2 = +1$

D = $k^2 - 1$, from OEIS A005563, [3, 8, 15, 24, 35, 48, 63, 80, 99, 120, 143, 168, 195, 224]

D	A-number of <i>x</i> -sequence	A-number of <i>y</i> -sequence
3	A001075	A001353
8	A001541	A001109
15	A001091	A001090
24	A001079	A004189
35	A023038	A097308
48	A011943	A057655
63	A001081	A077412
80	A023039	A049660
99	A001085	A075843
120	A077422	A077421
143	A077424	A077423
168	A097308	A0973089
195	A097310	A097311
224	A097312	A097313

TAB. 2: -1 Pell Equations for generic D : $x^2 - Dy^2 = -1$

$D = k^2 + 1$, from OEIS A002522, [2, 5, 10, 17, 26, 37, 50*, 65, 82, 101, 122, 145, 170, 197]

D	A-number of x -sequence	A-number of y -sequence
2	A002315	A001653
5	A075796	A007805
10	A097314	A097315
17	4*A078989	A078988
26	A097726	A0977277
37	A097729	A097730
50*	A097732	A097733
65	A097735	A097736
82	A097738	A097738
101	A097741	A097742
122	A097766	A097767
145	A097769	A097770
170	A097772	A097773
197	A097775	A097776

* not square-free.

TAB. 3: +4 Pell Equations for generic D: $x^2 - Dy^2 = +4$

**D = (2k + 3)(2k - 1), from OEIS A078371,
[5, 21, 45*, 77, 117*, 165, 221, 285, 357, 437, 525*, 621*, 725*, 837]**

D	A-number of <i>x</i> -sequence	A-number of <i>y</i> -sequence
5	A005248	A001906
21	A003501	A004254
45*	A056854	A004187
77	A056918	A018913
117*	A057076	A004190
165	A078363	A078362
221	A078365	A078364
285	A078367	A078366
357	A078369	A078368
437	A090729	A092499
525*	A090731	A097778
621*	A090733	A097780
725*	A090248	A09778
837*	A090251	A097782

* not square-free.

TAB. 4: -4 Pell Equations for generic D : $x^2 - Dy^2 = -4$

$D = (4k(k + 1) + 5)$, from OEIS A078370,
 [5, 13, 29, 53, 85, 125*, 173, 229, 293, 365, 445, 533, 629, 733]

D	A-number of x -sequence	A-number of y -sequence
5	A002878	A001519
13	3 · A097783	A078922
29	5 · A097834	A097835
53	7 · A097837	A097838
85	9 · A097840	A097841
125*	11 · A097842	A097843
173	13 · A097845	A098244
229	15 · A098246	A098247
293	17 · A098249	A098250
365	19 · A098252	A098253
445	21 · A098255	*A098256
533	23 · A098258	A098259
629	25 · A098261	A098262
733	27 · A098291	A098292

* not square-free.