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THE ON-LINE ENCYCLOPEDIA OF INTEGER SEQUENCES[®]

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(Greetings from [The On-Line Encyclopedia of Integer Sequences](#)!)

A062694 revision #15

A062694 Squarefree n such that the elliptic curve $n*y^2 = x^3 - x$ arising in the "congruent number" problem has rank 3 and nontrivial SHA[2].²

42486, 68839, 80189, 82205, 83845, 88502, 92045, 112326, 116645, 125749, 142222, 182005, 199805, 202742, 270805, 275286, 282613, 287246, 295222, 342205, 372742, 392502, 440453, 450079, 473263, 477581, 487302, 488047

([list](#); [graph](#); [refs](#); [listen](#); [history](#); [text](#); [internal format](#))

OFFSET 0,1

COMMENTS Conjectural, as detailed in the pages from which it is extracted (see the first few links at the web site mentioned for details), but the conjecture is supported by much numerical and theoretical evidence.

LINKS [Table of \$n\$, \$a\(n\)\$ for \$n=0..27\$.](#)

Jose Aranda, [Table of \$n\$, \$a\(n\)\$ for \$n = 0..54\$](#) (first 28 terms from Noam D. Elkies)

Jose Aranda, [PARI Script](#)

A. Dujella, A. S.Janfeda, and S. Salami, [A Search for High Rank Congruent Number Elliptic Curves](#), JIS 12 (2009) 09.5.8

Noam D. Elkies, [Algorithmic \(a.k.a. Computational\) Number Theory: Tables, Links, etc.](#)

CROSSREFS Cf. [A062693](#), [A062695](#).

Sequence in context: [A031670](#) [A237312](#) [A217164](#) * [A210264](#) [A251245](#) [A187959](#)

Adjacent sequences: [A062691](#) [A062692](#) [A062693](#) * [A062695](#) [A062696](#) [A062697](#)

KEYWORD nonn,hard,changed

AUTHOR [Noam D. Elkies](#), Jul 04 2001

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