MR2196795 (2006k:11049) 11D61 (11R11)

Mollin, R. A. (3-CALG-MS)

On an elementary approach to the Lebesgue-Nagell equation. (English summary)

Int. J. Number Theory **1** (2005), *no. 4*, 553–561.

In this paper, the author uses the number of primitive differences of squares and the class number of the quadratic order to provide a method to solve the Lebesgue-Nagell equation $x^2 + D = y^n$. Many existing solutions can be confirmed by this method.

Reviewed by *Shao Wei Zhang*