ON TERNARY QUADRATIC DIOPHANTINE EQUATION

\[ 2(x^2 + y^2) - 3xy = 43z^2 \]

M. A. Gopalan, D. Maheswari and J. Maheswari

Abstract

The ternary quadratic equation \( 2(x^2 + y^2) - 3xy = 43z^2 \) representing cone is analyzed by its nonzero distinct integer points on it. Employing the integer solutions, a few relations between the solutions and special polygonal numbers are presented.

Keywords and phrases: ternary, quadratic, integer solutions, Figurate numbers.

Received April 1, 2015

References
