

Year: 2016

Vol.: 88

Fasc.: 1-2

Title: Number of solutions to $a^x + b^y = c^z$

Author(s): Reese Scott and Robert Styer

For relatively prime integers a and b both greater than one and odd integer c , there are at most two solutions in positive integers (x, y, z) to the equation $a^x + b^y = c^z$. There are an infinite number of (a, b, c) giving exactly two solutions.

Address:

Reese Scott
86 Boston St.
Somerville, MA 02143
USA

Address:

Robert Styer
Department of Mathematics
and Statistics
Villanova University
800 Lancaster Avenue
Villanova, PA 19085-1699
USA