Nonlinear Diophantine equation $11^x+13^y = z^2$

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Abstract	This research aims to obtaining the solutions (if any) from the Non Linear Diophantine equation of 11(x) + 13(y) = z(2) There are 3 possibilities to obtain the solutions (if any) from the Non Linear Diophantine equation, namely single, multiple, and no solution. This research is conducted in two stages: (1) by utilizing simulation to obtain the solutions (if any) from the Non Linear Diophantine equation of 11(x) + 13(y) = z(2) and (2) by utilizing congruency theory with its characteristics proven that the Non Linear Diophantine equation has no solution for non negative whole numbers (integers) of x, y, z.
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