

ZMATH 2010b.00387

Molnár, István

On the equation $x^{-n} + y^{-n} = z^{-n}$. (Az $x^{-n} + y^{-n} = z^{-n}$ egyenletről.)

Mat. Tan. 17, No. 1, 3-9 (2009).

This article shows using the Fermat-Wiles theorem that the equation $x^{-n} + y^{-n} = z^{-n}$ has solution in integer numbers only the case $n = 1$ and $n = 2$ (same as the Fermat theorem). The method of the proof is elementary except of a reference to Fermat-Wiles theorem. It can be handled by talented pupils in secondary schools as well. Ödön Vancsó (Budapest)

Classification: F64

Keywords: Fermat-Wiles theorem; Pythagorean number triples; divisibility rules