

ZMATH 1995a.00268

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A note on an exponential equation.

Pi Mu Epsilon J. 10, No. 1, 22-25 (1994).

The following theorems are proven: 1. If $a_0|n$ and $\gcd(k_0, k_i) = 1$ for $i=1,2,\dots,n$ then (1) $a_0x_0^{k_0} = \sum_{i=1}^n x_i^{k_i}$ has a solution in positive integers. 2. If $a_0 = t^s$, $n = r^s$, $t|r$, and $\gcd(k_0, M)|s$ where $M = \text{lcm}(k_1, k_2, \dots, k_n)$ and c is an integer, then (1) has a solution in positive integers.

Classification: F60