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Abstract

Let n and k be positive integers and $\sigma(n)$ the sum of all positive divisors of n . We call n an exactly k -deficient-perfect number with deficient divisors d_1, d_2, \dots, d_k if d_1, d_2, \dots, d_k are distinct proper divisors of n and $\sigma(n) = 2n - (d_1 + d_2 + \dots + d_k)$. In this article, we show that the only odd exactly 3-deficient-perfect number with at most two distinct prime factors is $1521 = 3^2 \cdot 13^2$.