

# THEOREM 10.10.1. (Euler's Formula for Sums of Squares)

Let  $n \geq 1$  be a positive integer.

$$\text{The number of ways to write } n \text{ as a sum of } k \text{ squares is given by } \frac{1}{k!} \sum_{j=0}^{\infty} \frac{(-1)^j}{j!} \sum_{d|n} d^k \chi(d) \text{ where } \chi(d) = \begin{cases} 1 & \text{if } d \equiv 1 \pmod{4} \\ -1 & \text{if } d \equiv 3 \pmod{4} \\ 0 & \text{if } d \equiv 2 \pmod{4} \end{cases}$$

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**Terry C. Jones**



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