

①

La somma  $\sum_{k=3}^{20} 4k+1$  vale  $10^{12}$

$$\sum_{k=3}^{20} 4k+1 = \sum_{k=3}^{20} 4k+1 + \sum_{k=1}^2 4k+1 - \sum_{k=1}^2 4k-1$$

④

$$\sum_{k=1}^{20} 4k+1 - \sum_{k=1}^2 4k-1$$

①

$$\sum_{k=1}^{20} 4k+1 = \sum_{k=1}^{20} 4k + \sum_{k=1}^{20} 1$$

$$4 \sum_{k=1}^{20} k + \sum_{k=1}^{20} 1$$

$$\frac{4 \cdot 20(21)}{2} + 20 \cdot 1$$

②

$$\sum_{k=1}^2 (4k+1) = \sum_{k=1}^2 4k + \sum_{k=1}^2 1$$

$$4 \sum_{k=1}^2 k + \sum_{k=1}^2 1$$

$$4 \cdot \frac{2 \cdot 3}{2} = 4^2 \cdot \frac{6}{2^1} = 12 + 2 = 14$$

$$4 \cdot \frac{20(21)}{2} + 20 = 14 =$$

$$4 \cdot \frac{420}{2} + 20 - 14 = 0$$

$$840 + 20 - 14 = 846$$