

Question

Prove, by Mathematical Induction, that

$$[n+1]^2 + [n+2]^2 + [n+3]^2 + \dots + [2n]^2 = \frac{n(2n+1)(7n+1)}{6}$$

is true for all natural numbers n .

Discussion

Some readers may find it difficult to write the L.H.S. in $P(k+1)$. Some cannot factorize the L.H.S. and are forced to expand everything.

For $P(1)$,

$$\text{L.H.S.} = 2^2 = 4, \quad \text{R.H.S.} = \frac{1 \times 3 \times 8}{6} = 4 \quad \therefore \quad P(1) \text{ is true.}$$

Assume that $P(k)$ is true for some natural number k , that is

$$[k+1]^2 + [k+2]^2 + [k+3]^2 + \dots + [2k]^2 = \frac{k(2k+1)(7k+1)}{6} \quad \dots\dots (1)$$

For $P(k+1)$,

$$\begin{aligned} & [k+2]^2 + [k+3]^2 + \dots + [2k]^2 + [2k+1]^2 + [2k+2]^2 && \text{(There is a missing term in front and two more terms at the back.)} \\ &= [k+2]^2 + [k+3]^2 + \dots + [2k]^2 + [2k+1]^2 + 4[k+1]^2 \\ &= [k+1]^2 + [k+2]^2 + [k+3]^2 + \dots + [2k]^2 + [2k+1]^2 + 3[k+1]^2 \\ &= \frac{k(2k+1)(7k+1)}{6} + [2k+1]^2 + 3[k+1]^2, \text{ by (1)} \\ &= \frac{(2k+1)}{6} [k(7k+1) + 6(2k+1)] + 3[k+1]^2 && \text{(Combine the first two terms)} \\ &= \frac{(2k+1)}{6} [7k^2 + 13k + 6] + 3[k+1]^2 \\ &= \frac{(2k+1)}{6} [7k+6][k+1] + 3[k+1]^2 \\ &= \frac{(k+1)}{6} [(2k+1)(7k+6) + 18(k+1)] \\ &= \frac{(k+1)}{6} [14k^2 + 37k + 24] \\ &= \frac{(k+1)}{6} (2k+3)(7k+8) = \frac{(k+1)[2(k+1)+1][7(k+1)+1]}{6} \end{aligned}$$

$\therefore P(k+1)$ is true.

By the Principle of Mathematical Induction, $P(n)$ is true for all natural numbers, n .

Question

Mathematical Induction Zimsec November 2013

Mercedes Orús Lacort



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