

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 $P(1)$,

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

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

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

For $P(k + 1)$,

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

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

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

Question

Further Mathematics Zimsec Notes

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