

Prove, by Mathematical Induction, that

$$1 \cdot n + 2(n-1) + 3(n-2) + \dots + (n-2) \cdot 2 + n \cdot 1 = \frac{1}{6} n(n+1)(n+2)$$

is true for all natural numbers n .

Discussion

The "up and down" of the L.H.S. makes it difficult to find the middle term, but you can avoid this.

Solution

Let $P(n)$ be the proposition: $1 \cdot n + 2(n-1) + 3(n-2) + \dots + (n-2) \cdot 2 + n \cdot 1 = \frac{1}{6} n(n+1)(n+2)$

For $P(1)$,

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

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

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

For $P(k+1)$,

$$\begin{aligned} & 1 \cdot (k+1) + 2k + 3(k-1) + \dots + (k-1) \cdot 3 + k \cdot 2 + (k+1) \cdot 1 \\ &= 1 \cdot (k+1) + 2[(k-1) + 1] + 3[(k-2) + 1] + \dots + (k-1) \cdot [2+1] + k \cdot [1+1] + (k+1) \cdot 1 \\ &= 1 \cdot k + 2(k-1) + 3(k-2) + \dots + (k-2) \cdot 2 + k \cdot 1 \\ & \quad + 1 + 2 \quad + 3 \quad + \dots + (k-1) + k + (k+1) \quad (\text{The bottom series is arithmetic}) \\ &= \frac{1}{6} k(k+1)(k+2) + \frac{1}{2} (k+1)(k+2), \text{ by (1)} \\ &= \frac{1}{6} (k+1)(k+2)[k+3] = \frac{1}{6} (k+1)[(k+1)+1][(k+1)+2] \end{aligned}$$

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

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

Question

Prove, by Mathematical Induction, that $n(n+1)(n+2)(n+3)$ is divisible by 24, for all natural numbers n .

Discussion

Mathematical Induction cannot be applied directly. Here we break the proposition into three parts. Also note that $24 = 4 \times 3 \times 2 \times 1 = 4!$

Solution

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