

Example 2.34

Using mathematical induction method, Prove that

$$1 + 2 + 3 + \dots + n = \frac{n(n+1)}{2}, n \in N.$$

Solution

Let the given statement $P(n)$ be defined as

$$1+2+3+\dots+n = \frac{n(n+1)}{2} \text{ for } n \in N.$$

Step 1: Put $n = 1$

$$\text{LHS} \quad P(1) = 1$$

$$\text{RHS} \quad P(1) = \frac{1(1+1)}{2} = 1$$

$$\text{LHS} = \text{RHS for } n = 1$$

$\therefore P(1)$ is true

Step 2: Let us assume that the statement is true for $n = k$.

i.e., $P(k)$ is true

$$1 + 2 + 3 + \dots + k = \frac{k(k+1)}{2} \text{ is true}$$

Step 3: To prove that $P(k+1)$ is true

$$\begin{aligned} P(k+1) &= 1+2+3+\dots+k+(k+1) \\ &= P(k) + k + 1 \end{aligned}$$

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Marco Casella



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