

Mathematical Induction

The principle of mathematical induction is a method for proving that a statement $P(n)$ is true for all natural numbers n . It consists of two steps: the base case and the inductive step. The base case is the statement $P(1)$, which is true. The inductive step is the statement that if $P(k)$ is true for some natural number k , then $P(k+1)$ is also true. If both steps are proven, then $P(n)$ is true for all natural numbers n .

For example, let $P(n)$ be the statement that the sum of the first n natural numbers is $\frac{n(n+1)}{2}$. The base case is $P(1)$, which is true because $1 = \frac{1(1+1)}{2}$. The inductive step is to show that if $P(k)$ is true, then $P(k+1)$ is also true. Assume $P(k)$ is true, so $1 + 2 + \dots + k = \frac{k(k+1)}{2}$. Then $1 + 2 + \dots + k + (k+1) = \frac{k(k+1)}{2} + (k+1) = \frac{(k+1)(k+2)}{2}$, which is $P(k+1)$. Therefore, $P(n)$ is true for all natural numbers n .

Example 1: Prove that $2^n > n$ for all natural numbers n .
Base case: $2^1 = 2 > 1$.
Inductive step: Assume $2^k > k$. Then $2^{k+1} = 2 \cdot 2^k > 2 \cdot k \geq k+1$ for $k \geq 1$.
Therefore, $2^n > n$ for all natural numbers n .

Example 2: Prove that $1 + 2 + \dots + n = \frac{n(n+1)}{2}$ for all natural numbers n .
Base case: $1 = \frac{1(1+1)}{2}$.
Inductive step: Assume $1 + 2 + \dots + k = \frac{k(k+1)}{2}$. Then $1 + 2 + \dots + k + (k+1) = \frac{k(k+1)}{2} + (k+1) = \frac{(k+1)(k+2)}{2}$.
Therefore, $1 + 2 + \dots + n = \frac{n(n+1)}{2}$ for all natural numbers n .

Answers For Problem Of The Month Party Time

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