Mathematical Induction

Use mathematical induction to prove that each statement is true for all positive integers.

1) $1 + 3 + 5 + \cdots + (2n - 1) = n^2$ for $n = 1, 2, \ldots$

2) $2 + 4 + 6 + \cdots + 2n = n(n + 1)$ for $n = 1, 2, \ldots$

3) $1 + 2 + 3 + \cdots + n = \dfrac{n(n + 1)}{2}$ for $n = 1, 2, \ldots$

4) $3^n - 1$ is a multiple of 2 for $n = 1, 2, \ldots$

PREVIEW

Solutions

Use mathematical induction to prove that each statement is true for all positive integers.

1) $1 + 3 + 5 + \cdots + (2n - 1) = n^2$ for $n = 1, 2, \ldots$

Proof

For $n = 1$,

$$1 = 1^2$$

Hence for $n = 1$, the statement is true.

Assume that the statement is true for $n = k$, so $1 + 3 + 5 + \cdots + (2k - 1) = k^2$.

$$\begin{aligned}
&1 + 3 + 5 + \cdots + (2k - 1) + (2(k + 1) - 1) \\
&= 1 + 3 + 5 + \cdots + (2k - 1) + (2k + 2 - 1) \\
&= 1 + 3 + 5 + \cdots + (2k - 1) + (2k + 1) \\
&= k^2 + (2k + 1) \\
&= (k + 1)^2
\end{aligned}$$

So the statement is true for $n = k + 1$.

Hence $1 + 3 + 5 + \cdots + (2n - 1) = n^2$ for $n = 1, 2, \ldots$

2) $2 + 4 + 6 + \cdots + 2n = n(n + 1)$ for $n = 1, 2, \ldots$

Proof

For $n = 1$,

$$2 = 1(1 + 1)$$

Hence for $n = 1$, the statement is true.

Assume that the statement is true for $n = k$, so $2 + 4 + 6 + \cdots + 2k = k(k + 1)$.

$$\begin{aligned}
&2 + 4 + 6 + \cdots + 2k + 2(k + 1) \\
&= 2 + 4 + 6 + \cdots + 2k + 2k + 2 \\
&= k(k + 1) + 2k + 2 \\
&= k^2 + k + 2k + 2 \\
&= k^2 + 3k + 2 \\
&= (k + 1)(k + 2)
\end{aligned}$$

So the statement is true for $n = k + 1$.

Hence $2 + 4 + 6 + \cdots + 2n = n(n + 1)$ for $n = 1, 2, \ldots$

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David Baud

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