

Proof By Induction

Three Steps

Step 1

Step 2

Step 3

Proof by Induction

Let the summation s_n be defined as follows:

$$s_n = 1 + 3 + 5 + \dots + (2n - 1) \quad \text{for } n \in \mathbb{Z}^+$$

Use the method of induction to prove that $s_n = n^2$ for all $n \geq 1$.