

Mathematical Induction Examples

Solution: Let, $P(n) = \frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \dots + \frac{1}{n(n+1)} = \frac{n}{n+1}$

$$P(1) = \frac{1}{1 \times 2} = \frac{1}{1+1} \quad (\text{By substituting } n=1 \text{ on both sides})$$

$\therefore P(1)$ is true.

Let, $P(n)$ be true for some natural number K .

$$\text{i.e., } P(K) = \frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \dots + \frac{1}{K(K+1)} = \frac{K}{K+1}$$

Now,

$$\begin{aligned} P(K+1) &= \frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \dots + \frac{1}{K(K+1)} + \frac{1}{(K+1)(K+2)} \\ &= \frac{K}{K+1} + \frac{1}{(K+1)(K+2)} \quad [\because P(K) \text{ is true}] \end{aligned}$$

Mathematical Induction Problems With

Christian Drosten



Mathematical Induction Problems With:

Whispering the Strategies of Language: An Psychological Journey through **Mathematical Induction Problems With**

In a digitally-driven earth where screens reign supreme and immediate interaction drowns out the subtleties of language, the profound techniques and mental subtleties hidden within phrases usually get unheard. Yet, set within the pages of **Mathematical Induction Problems With** a charming literary value sporting with fresh emotions, lies a fantastic quest waiting to be undertaken. Published by a talented wordsmith, that charming opus encourages visitors on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within the very fabric of each word. Within the mental depths of the touching evaluation, we will embark upon a sincere exploration of the book is primary styles, dissect their fascinating writing style, and fail to the effective resonance it evokes deep within the recesses of readers hearts.

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