

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 Solutions

Robert R. Redfield



Mathematical Induction Problems With Solutions:

Enjoying the Track of Phrase: An Emotional Symphony within **Mathematical Induction Problems With Solutions**

In a world eaten by monitors and the ceaseless chatter of quick connection, the melodic beauty and emotional symphony produced by the published word often diminish in to the back ground, eclipsed by the constant sound and disturbances that permeate our lives. However, located within the pages of **Mathematical Induction Problems With Solutions** a marvelous fictional value filled with organic thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, that charming masterpiece conducts readers on a psychological journey, well unraveling the hidden melodies and profound affect resonating within each cautiously constructed phrase. Within the depths of the touching review, we can discover the book is key harmonies, analyze their enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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