

# 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

**E Durkheim**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular glow behind it.

**Mathematical Induction Problems With:**

## Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Mathematical Induction Problems With**

In a world inundated with displays and the cacophony of fast communication, the profound power and psychological resonance of verbal artistry usually fade into obscurity, eclipsed by the regular assault of sound and distractions. However, nestled within the lyrical pages of **Mathematical Induction Problems With**, a charming work of fictional splendor that pulses with organic thoughts, lies an unique trip waiting to be embarked upon. Published by a virtuoso wordsmith, that mesmerizing opus books viewers on an emotional odyssey, gently exposing the latent possible and profound impact stuck within the intricate internet of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is central styles, dissect its fascinating writing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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