

# 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

**Patrick Vollmar**



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## **Table of Contents Mathematical Induction Problems With**

1. Understanding the eBook Mathematical Induction Problems With
  - The Rise of Digital Reading Mathematical Induction Problems With
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Induction Problems With
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mathematical Induction Problems With
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Induction Problems With
  - Personalized Recommendations
  - Mathematical Induction Problems With User Reviews and Ratings
  - Mathematical Induction Problems With and Bestseller Lists
5. Accessing Mathematical Induction Problems With Free and Paid eBooks
  - Mathematical Induction Problems With Public Domain eBooks
  - Mathematical Induction Problems With eBook Subscription Services

- Mathematical Induction Problems With Budget-Friendly Options
- 6. Navigating Mathematical Induction Problems With eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematical Induction Problems With Compatibility with Devices
  - Mathematical Induction Problems With Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematical Induction Problems With
  - Highlighting and Note-Taking Mathematical Induction Problems With
  - Interactive Elements Mathematical Induction Problems With
- 8. Staying Engaged with Mathematical Induction Problems With
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematical Induction Problems With
- 9. Balancing eBooks and Physical Books Mathematical Induction Problems With
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematical Induction Problems With
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematical Induction Problems With
  - Setting Reading Goals Mathematical Induction Problems With
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematical Induction Problems With
  - Fact-Checking eBook Content of Mathematical Induction Problems With
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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