

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,

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

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S Marginson



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Table of Contents Mathematical Induction Problems With Solutions

1. Understanding the eBook Mathematical Induction Problems With Solutions
 - The Rise of Digital Reading Mathematical Induction Problems With Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Induction Problems With Solutions
 - 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 Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Induction Problems With Solutions
 - Personalized Recommendations
 - Mathematical Induction Problems With Solutions User Reviews and Ratings
 - Mathematical Induction Problems With Solutions and Bestseller Lists
5. Accessing Mathematical Induction Problems With Solutions Free and Paid eBooks
 - Mathematical Induction Problems With Solutions Public Domain eBooks
 - Mathematical Induction Problems With Solutions eBook Subscription Services
 - Mathematical Induction Problems With Solutions Budget-Friendly Options

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