

# 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,

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

# The Method Of Mathematical Induction

**J Elliott**



## **The Method Of Mathematical Induction:**

This book delves into The Method Of Mathematical Induction. The Method Of Mathematical Induction is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into The Method Of Mathematical Induction, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to The Method Of Mathematical Induction
    - Chapter 2: Essential Elements of The Method Of Mathematical Induction
    - Chapter 3: The Method Of Mathematical Induction in Everyday Life
    - Chapter 4: The Method Of Mathematical Induction in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of The Method Of Mathematical Induction. This chapter will explore what The Method Of Mathematical Induction is, why The Method Of Mathematical Induction is vital, and how to effectively learn about The Method Of Mathematical Induction.
  3. In chapter 2, this book will delve into the foundational concepts of The Method Of Mathematical Induction. The second chapter will elucidate the essential principles that need to be understood to grasp The Method Of Mathematical Induction in its entirety.
  4. In chapter 3, the author will examine the practical applications of The Method Of Mathematical Induction in daily life. The third chapter will showcase real-world examples of how The Method Of Mathematical Induction can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of The Method Of Mathematical Induction in specific contexts. This chapter will explore how The Method Of Mathematical Induction is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about The Method Of Mathematical Induction. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of The Method Of Mathematical Induction.

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teaches Contemporary Philosophy and Art Theory at the Brera Academy of Fine Arts in Milan. His most recent books are: Il re è ... Nous sommes nus. 27 October, 2008. | Items Cartoonist writes 'A painted cartoon...Its title is Nous sommes nus. Recently I had an exhibition of paintings at Roar! Gallery called Fighting for a Peace. In ... Which one is better in French,'Nous nous sommes brossés ... Jan 13, 2018 — THE correct one is : nous nous sommes brossé les dents. The Comprehensible Classroom: Teach languages with ... Access to a full network of support and mentorship for each step of the way. Also available in French (The Nous sommes Curriculum) and Latin (The Sumus ...