

# 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

**Léo Pomar**



## **Mathematical Induction Problems With Solutions :**

**Problems and Solutions Mathematics Class XI** Dr. Ram Dev Sharma, ,Er. Meera Goyal,2021-12-15 1 Sets 2 Relations and Functions 3 Trigonometric Functions 4 Principle of Mathematical Induction 5 Complex Numbers and Quadratic Equations 6 Linear Inequalities 7 Permutations and Combinations 8 Binomial Theorem 9 Sequences and Series 10 Straight Lines 11 Conic Sections 12 Introduction to Three Dimensional Geometry 13 Limits and Derivatives 14 Mathematical Reasoning 15 Statistics 16 Probability [Problems and Solutions Mathematics Class XI by Dr. Ram Dev Sharma, Er. Meera Goyal](#)

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**Mathematical Induction 101** Duc Van Khanh Tran,2023-01-02 This book starts with a brief introduction of mathematical induction and provides 101 practice problems of mathematical induction proofs The problems have various levels of difficulty and cover a wide range of topics sequences series products inequality trigonometry floor function derivatives integrals matrices set theory etc Those who want to learn about mathematical induction can learn from this book and those who are already familiar with mathematical induction can find some fun problems to practice Reviews In the ideal

situation every college student should learn some mathematics with the depth and difficulty largely varying. As in the practice of most refined universities, mathematical education should never be standardized. Meanwhile, math induction is one of the key tools that students need to know. Based on my teaching experiences to many Chinese and international students, I found Tran's book fairly interesting and accessible. *Mathematical Induction 101* contains 101 carefully chosen exercise problems. I believe that Tran's book will prove to be useful for college students in the broad range of arts and sciences. Hopefully, many will appreciate the beauty and power of mathematical reasoning with mastery of math induction after using this book.

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Prof. Emeritus Young One Kim, Seoul National University: As a mathematics student, this is a book I would have loved in my introductory proof class. Duc Van Khanh Tran has written up a fantastic way to both learn and practice one of the most essential tools in a mathematician's toolkit: Induction. It's difficult to find such a large, comprehensive array of well-written and demonstrative practice problems, which makes this all the more valuable a resource. Duc Van Khanh Tran carefully pens each solution to be as intuitive and explanatory as possible, so the risk of confusion at a solution is minimal. The vast amount of problems is complemented by the vast array of topics the book covers. Inequalities, sequences, trigonometry, power series, derivatives, and integrals are only some of the concepts found guaranteeing that anyone interested in math will get something new out of this book. I've tried a few of these for fun; I really like the integral problems myself. All in all, if you'd like to learn about induction, hone your induction skills, or just want a bunch of fun induction problems, purchase away. You won't regret it.

Said Kaili, Undergraduate Student of Mathematics, University of Virginia: Despite minimal prior proof background, I can grasp the main scopes of the book without much difficulty. Indeed, Duc Tran's book provides clear instructions, comprehensive content, and helpful problems that ease students into learning mathematical induction.

Ky Minh Vinh Nguyen, Undergraduate Student of Informatics, University of Texas at Austin: *UP Board Problems and Solutions Mathematics Class 11*. Dr. Ram Dev Sharma, Er. Meera Goyal, 2023-12-03

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