

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

JS Bruner



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Expanding Mathematical Toolbox: Interweaving Topics, Problems, and Solutions Boris Pritsker, 2023-02-08 Expanding Mathematical Toolbox Interweaving Topics Problems and Solutions offers several topics from different mathematical disciplines and shows how closely they are related The purpose of this book is to direct the attention of readers who have an interest in and talent for mathematics to engaging and thought provoking problems that should help them change their ways of thinking entice further exploration and possibly lead to independent research and projects in mathematics In spite of the many challenging problems most solutions require no more than a basic knowledge covered in a high school math curriculum To shed new light on a deeper appreciation for mathematical relationships the problems are selected to demonstrate techniques involving a variety of mathematical ideas Included are some interesting applications of trigonometry vector algebra and Cartesian coordinate system techniques and geometrical constructions and inversion in solving mechanical engineering problems and in studying models explaining non Euclidean geometries This book is primarily directed at secondary school teachers and college professors It will be useful in teaching mathematical reasoning because it emphasizes how to teach students to think creatively and strategically and how to make connections between math disciplines The text also can be used as a resource for preparing for mathematics Olympiads In addition it is aimed at all readers who want to study mathematics gain deeper understanding and enhance their problem solving abilities Readers will find fresh ideas and topics offering unexpected insights new skills to expand their horizons and an appreciation for the beauty of mathematics

3,000 Solved Problems in Linear Algebra Seymour Lipschutz, 1989-01-22 Learn the best strategies for solving tough problems in step by step detail Slash your homework time with these examples Get ready for exams with test type problems Great index helps you quickly locate the type of problem you need to solve **Comprehensive Discrete Mathematics & Structures**, **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 Prof

Chunwei Song Peking University This book provides an interesting collection of identities and inequalities that can be proved by mathematical induction These 101 practices will be useful to learn standard techniques Some of the topics and their solutions would also be found stimulating even for advanced students of mathematics Prof Hiroaki Nakamura Osaka University This book provides almost all types of problems in high school and collegiate mathematics which can be solved by mathematical induction To each problem a self contained and detailed solution is given Difficulty ranges from quite elementary to somewhat complex Among them there are many interesting ones I am particularly interested in problems related to the Fibonacci sequence floor function and iterated functions 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 *Solved Papers for Manipal Engineering 2021* Arihant Experts,2021-01-28 [Andhra Pradesh EAPCET Engineering \(2021-2001\) Solved Papers For 2022 Exam](#) Arihant Experts,2019-09-30 Engineering Agricultural and Medical Common Entrance Test EAMCET is an entrance examination conducted in some Engineering and Medical Colleges by Jawaharlal Nehru Technological University every year The new edition of Arihant s Andhra Pradesh EAMCET Engineering 19 Years Solved Papers 2019 2001 has been prepared as per the latest question papers of the examination This book provides the best study material to the candidates who were preparing for this examination It gives the complete coverage to the syllabus by providing the last 19 years question papers from 2001 to 2019 in which in which web links are provided for EAMCET Solved Papers 2014 2001 so that students can download it and study from anywhere at any point of time Moreover solution of each question is well explained with details which helps the candidates to understand better Thorough practice done from this book ensures good ranking and selection in the top colleges and institutions TABLE OF CONTENT AP EAMCET Solved Papers 2019 2015 Shift 1 2 EAMCET Solved Papers 2104 2001 Weblinks *The Nature of Mathematical*

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The American Mathematical Monthly, 1925 Includes section Recent publications

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