Mathematical Induction Examples

Solution: Let, $P(n) = \dfrac{1}{1 \times 2} + \dfrac{1}{2 \times 3} + \dfrac{1}{3 \times 4} + \cdots\cdots + \dfrac{1}{n(n+1)} = \dfrac{n}{n+1}$

$P(1) = \dfrac{1}{1 \times 2} = \dfrac{1}{1+1}$ (By substituting n=1 on both sides)

$\therefore P(1)$ is true.

Let, $P(n)$ be true for some natural number K.

i.e., $P(K) = \dfrac{1}{1 \times 2} + \dfrac{1}{2 \times 3} + \dfrac{1}{3 \times 4} + \cdots\cdots + \dfrac{1}{K(K+1)} = \dfrac{K}{K+1}$

Now,

$P(K+1) = \dfrac{1}{1 \times 2} + \dfrac{1}{2 \times 3} + \dfrac{1}{3 \times 4} + \cdots\cdots + \dfrac{1}{K(K+1)} + \dfrac{1}{(K+1)(K+2)}$

$= \dfrac{K}{K+1} + \dfrac{1}{(K+1)(K+2)}$ [$\because$ P(K) is true]

Mathematical Induction Problems With Solutions

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Mathematical Induction Problems With Solutions:

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 *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** Dr. Ram Dev Sharma,Er. Meera Goyal,2020-06-27 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 **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 **UP Board Problems and Solutions Mathematics Class 11** Dr. Ram Dev Sharma, ,Er. Meera Goyal,2023-12-03 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 **A Study of the Problems Involved in Teaching Mathematical Induction on**

the High School Level with Suggested Possible Solutions Andrea Susann Rostad,1966 *Solved Papers for Manipal Engineering 2021* Arihant Experts,2021-01-28 Andhra Pradesh EAMCET Chapterwise Solutions 2020-2018 Mathematics for 2021 Exam Arihant Experts,2021-03-25 1 EAMCET Chapterwise Solutions 2020 2018 Mathematics 2 The book divided into 29 Chapters 3 Each chapter is provided with the sufficient number of previous question 4 3 Practice Sets given to know the preparation levels The Andhra Pradesh State Council of Higher Education APSCHE has announced the admissions in Andhra Pradesh Engineering Agricultural and Medical Common Entrance Test AP EAMCET Students are required proper preparation and practice of the syllabus in order to get admissions in the best colleges of the state In order to ease the preparation of the exam Arihant introduces the new edition Andhra Pradesh EAMCET Chapterwise Solutions 2020 2018 Mathematics this book is designed to provide the suitable study and practice material aid as per the exam pattern The entire syllabus has been divided into 29 chapters of the subject Each chapter is provided with the sufficient number of previous question from 2018 to 2020 Lastly there are 3 Practice Sets giving a finishing touch to the knowledge that has been acquired TOC Complex Numbers and De Moiver s Theorems Quadratic Equations Theory of Equations Functions Mathematical Inductions Partial Fractions Binomial Theorems Permutations and Combinations Matrices and Determinants Measures of Dispersions Probability Trigonometry Functions and Identities Trigonometry Equations Properties of Triangles Inverse Trigonometric Functions Hyperbolic Functions Rectangular Cartesian Coordinates Straight Line and Pair of Straight Lines Circle and System of Circles Conic Sections Vector Algebra Three Dimensional Geometry Limits and Continuity Differentiation Applications of Derivatives Indefinite Integral and Its Applications Differential Equations Miscellaneous Practice Sets 1 3 *The Nature of Mathematical Knowledge* San Diego Philip Kitcher Professor of Philosophy University of California,1983-04-21 This book argues against the view that mathematical knowledge is a priori contending that mathematics is an empirical science and develops historically just as natural sciences do Kitcher presents a complete systematic and richly detailed account of the nature of mathematical knowledge and its historical development focusing on such neglected issues as how and why mathematical language changes why certain questions assume overriding importance and how standards of proof are modified *The American Mathematical Monthly* ,1925 Includes section Recent publications

EAMCET Mathematics Andhra and Telangana Chapterwise 28 Years' Solutions and 5 Mock Tests 2020 Arihant Experts,2019-11-12 Engineering Agricultural Medical Common Entrance Test EAMCET is an entrance examination conducted by the Jawaharlal Nehru Technological University annually for getting admission in some of the engineering agricultural and medical colleges in the states of Andhra Pradesh and Telangana In order to ease the preparation of EAMCET this book provides suitable study practice material and a revisionary aid for Mathematics subject that gives the insight of the pattern of the exam It familiarizes with the structural formation of the paper by giving the complete coverage of Previous Years Questions in a Chapterwise format Solutions provided in a lucid manner that helps students to understand the

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