

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 Pdf

Wenbin Ji



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Mathematical Discovery Brian Thomson, Judith Bruckner, Andrew Bruckner, 2011-04-28 This book is an outgrowth of classes given at the University of California Santa Barbara mainly for students who had little mathematical background Many of the students indicated they never understood what mathematics was all about beyond what they learned in algebra and geometry Was there any more mathematics to be discovered or created How could one actually discover or create new mathematics In order to give these students some sort of answers to such questions we designed a course in which the students could actually participate in the discovery of mathematics

Fractional Derivatives for Physicists and Engineers Vladimir V. Uchaikin, 2013-07-09 The first derivative of a particle coordinate means its velocity the second means its acceleration but what does a fractional order derivative mean Where does it come from how does it work where does it lead to The two volume book written on high didactic level answers these questions Fractional Derivatives for Physicists and Engineers The first volume contains a clear introduction into such a modern branch of analysis as the fractional calculus The second develops a wide panorama of applications of the fractional calculus to various physical problems This book recovers new perspectives in front of the reader dealing with turbulence and semiconductors plasma and thermodynamics mechanics and quantum optics nanophysics and astrophysics The book is addressed to students engineers and physicists specialists in theory of probability and statistics in mathematical modeling and numerical simulations to everybody who doesn't wish to stay apart from the new mathematical methods becoming more and more popular Prof Vladimir V UCHAIKIN is a known Russian scientist and pedagogue a Honored Worker of Russian High School a member of the Russian Academy of Natural Sciences He is the author of about three hundreds articles and more than a dozen books mostly in Russian in Cosmic ray physics Mathematical physics Levy stable statistics Monte Carlo methods with applications to anomalous processes in complex systems of various levels from quantum dots to the Milky Way galaxy

The Handbook of Mathematics Teacher Education: Volume 1, 2008-01-01 The Handbook of Mathematics Teacher Education the first of its kind addresses the learning of mathematics teachers at all levels of schooling to teach mathematics

and the provision of activity and programmes in which this learning can take place It consists of four volumes VOLUME 1 Knowledge and Beliefs in Mathematics Teaching and Teaching Development addresses the what of mathematics teacher education meaning knowledge for mathematics teaching and teaching development and consideration of associated beliefs As well as synthesizing research and practice over various dimensions of these issues it offers advice on best practice for teacher educators university decision makers and those involved in systemic policy development on teacher education

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