Let
$$P(n):=\frac{1}{1.2}+\frac{1}{2.3}+\frac{1}{3.4}+\cdots+\frac{1}{n(n+1)}=\frac{n}{n+1}$$
. Substituting the value of $n=1$, in the statement we get, $P(1)=\frac{1}{1.2}=\frac{1}{2}$. Hence, $P(1)$ is true. Let us assume that the statement is true for $n=k$. Then
$$P(k)=\frac{1}{1.2}+\frac{1}{2.3}+\frac{1}{3.4}+\cdots+\frac{1}{k(k+1)}=\frac{k}{k+1}.$$
 We need to show that $P(k+1)$ is true. Consider.

 $P(k+1) = \frac{1}{1.2} + \frac{1}{2.3} + \frac{1}{3.4} + \dots + \frac{1}{k(k+1)} + \frac{1}{(k+1)(k+2)}$

We need to show that P(k+1) is true. Consider,

Solution:

$$= P(k) + \frac{1}{(k+1)(k+2)}$$

$$= \frac{k}{(k+1)} + \frac{1}{(k+1)(k+2)}$$

$$= \frac{1}{k+1} \left(\frac{k}{1} + \frac{1}{k+2} \right)$$

$$= \frac{1}{k+1} \left(\frac{k^2 + 2k + 1}{k+2} \right)$$

 $=\frac{1}{(k+1)^2}\left(\frac{(k+1)^2}{(k+2)}\right)=\frac{(k+1)}{(k+2)}$ This implies, P(k + 1) is true. The validity of P(k + 1) follows from that of P(k). Therefore, by

the principle of mathematical induction, for any natural number
$$n$$
,
$$\frac{1}{1.2} + \frac{1}{2.3} + \frac{1}{3.4} + \dots + \frac{1}{n(n+1)} = \frac{n}{n+1}.$$

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consequently truly learned it what is left for this teacher to learn As evident in this book the experience of teaching presents teachers with an exciting opp tunity for learning throughout their entire career This means acquiring a better understanding of what is being taught and moreover learning a variety of new things What these new things may be and how they are learned is addressed in the collection of chapters in this volume LTT is acknowledged by multiple researchers and mathematics educators In the rst chapter Leikin and Zazkis review literature that recognizes this phenomenon and stress that only a small number of studies attend systematically to LTT p cesses The authors in this volume purposefully analyze the teaching of mathematics as a source for teachers own learning **Resources for Teaching Discrete Mathematics** Brian Hopkins, 2009 Hopkins collects the work of 35 instructors who share their innovations and insights about teaching discrete mathematics at the high school and college level The book s 9 classroom tested projects including building a geodesic dome come with student handouts solutions and notes for the instructor The 11 history modules presented draw on original sources such as Pascal's Treatise on the Arithmetical Triangle allowing students to explore topics in their original contexts Three articles address extensions of standard discrete mathematics content Two other articles explore pedagogy specifically related to discrete mathematics courses adapting a group discovery method to larger classes and using logic in encouraging students to construct proofs Problems And Solutions In Introductory And Advanced Matrix Calculus (Second Edition) Yorick Hardy, Willi-hans Steeb, 2016-07-14 This book provides an extensive collection of problems with detailed solutions in introductory and advanced matrix calculus Supplementary problems in each chapter will challenge and excite the reader ideal for both graduate and undergraduate mathematics and theoretical physics students The coverage includes systems of linear equations linear differential equations integration and matrices Kronecker product and vec operation as well as functions of matrices Furthermore specialized topics such as spectral theorem nonnormal matrices and mutually unbiased bases are included Many of the problems are related to applications for group theory Lie algebra theory wavelets graph theory and matrix valued differential forms benefitting physics and engineering students and researchers alike It also branches out to problems with tensors and the hyperdeterminant Computer algebra programs in Maxima and SymbolicC have also been provided Problems and Solutions in Biological Sequence Analysis Mark Borodovsky, Svetlana Ekisheva, 2006-09-04 This book is the first of its kind to provide a large collection of bioinformatics problems with accompanying solutions Notably the problem set includes all of the problems offered in Biological Sequence Analysis by Durbin et al Cambridge 1998 widely adopted as a required text for bioinformatics courses at leading universities worldwide Although many of the problems included in Biological Sequence Analysis as exercises for its readers have been repeatedly used for homework and tests no detailed solutions for the problems were available Bioinformatics instructors had therefore frequently expressed a need for fully worked solutions and a larger set of problems for use on courses This book provides just that following the same structure as Biological Sequence Analysis and significantly extending the set of workable problems it

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