

Determine the sum of the arithmetic series.

$$1. 3 + 8 + 11 + \dots + 73$$

$$a_1 = 3 \quad d = 5$$

$$a_n = 73$$

$$a_n = a_1 + (n-1)d$$

$$73 = 3 + (n-1)5$$

$$73 = 3 + 5n - 5$$

$$73 = 5n - 2$$

$$\frac{75}{5} = \frac{5n}{5} \quad (n=15)$$

$$d = a_n - a_{n-1}$$

$$S_n = \frac{n}{2}(a_1 + a_n)$$

$$a_n = a_1 + (n-1)d$$

$$S_n = \frac{n[2a_1 + (n-1)d]}{2}$$

Arithmetic Sequences And Series Answers

Cynthia Y. Young



Arithmetic Sequences And Series Answers:

College Algebra Cynthia Y. Young, 2012-10-02 This is the Student Solutions Manual to accompany College Algebra 3rd Edition The 3rd edition of Cynthia Young's College Algebra brings together all the elements that have allowed instructors and learners to successfully bridge the gap between classroom instruction and independent homework by overcoming common learning barriers and building confidence in students' ability to do mathematics Written in a clear voice that speaks to students and mirrors how instructors communicate in lecture Young's hallmark pedagogy enables students to become independent successful learners

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Methods of Solving Sequence and Series Problems Ellina Grigorieva, 2016-12-09 This book aims to dispel the mystery and fear experienced by students surrounding sequences series convergence and their applications The author an accomplished female mathematician achieves this by taking a problem solving approach starting with fascinating problems and solving them step by step with clear explanations and illuminating diagrams The reader will find the problems interesting unusual and fun yet solved with the rigor expected in a competition Some problems are taken directly from mathematics competitions with the name and year of the exam provided for reference Proof techniques are emphasized with a variety of methods presented The text aims to expand the mind of the reader by often presenting multiple ways to attack the same problem as well as drawing connections with different fields of mathematics Intuitive and visual arguments are presented alongside technical proofs to provide a well rounded methodology With nearly 300 problems including hints answers and solutions Methods of Solving Sequences and Series Problems is an ideal resource for those learning calculus preparing for mathematics competitions or just looking for a worthwhile challenge It can also be used by faculty who are looking for interesting and insightful problems that are not commonly found in other textbooks

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Student's Solutions Manual Intermediate Algebra Judith A. Penna, Marvin L. Bittinger, David J. Ellenbogen, 2005-08

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You Can Do Math Sunil Tanna, 2018-12-05 A detailed guide to arithmetic sequences, also known as arithmetic progressions, including how to identify them, how to find the terms, creating formulae to describe the terms of an arithmetic sequence, calculating the sum and mean of an sequence, and more. Easy to follow, step-by-step explanations, numerous examples, and 80 questions and answers, including showing you to solve each question and reach the answer. Topics include: INTRODUCING ARITHMETIC SEQUENCES: What is a Sequence? What is an Arithmetic Sequence? Checking if a Sequence is an Arithmetic Sequence. Finding the Common Difference of an Arithmetic Sequence from Adjacent Terms. Finding the Common Difference of an Arithmetic Sequence from Non-Adjacent Terms. Finding the Next Terms in an Arithmetic Sequence. Finding the Previous Terms in an Arithmetic Sequence. Finding Missing Terms in an Arithmetic Sequence. FINDING AND USING THE FORMULA FOR A PARTICULAR ARITHMETIC SEQUENCE: Finding the Formula. Using the Formula to Find a Particular Term. Using the Formula to Check Whether and Where a Particular Term is in a Sequence. Using the Formula to Find the First Term Greater Than a Target Value. Using the Formula to Find the First Term Less Than a Target Value. A GENERAL FORMULA FOR THE TERMS IN AN ARITHMETIC SEQUENCE: Creating the Formula. Using the Formula. Finding the Values of a and d . CALCULATING THE SUM AND MEAN OF AN ARITHMETIC SEQUENCE: Gauss at Elementary School. Generating a Formula for the Sum of Arithmetic Sequence. Using the Sum Formula. Finding the Sum of Ranges of Terms within an Arithmetic Sequence. Generating a Formula for the Arithmetic Mean of an Arithmetic Sequence. Simultaneous Equations Involving the Sum and or Mean.

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A Course of Study in Arithmetic, with Answers to the Everyday Arithmetic Franklin Sherman Hoyt, Harriet E. Peet, 1915

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Precalculus Mathematics Karl J. Smith, 1986

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