

# WORKSHEET

## Geometric Series

**Problem 1:** Determine the sum of the first 6 terms of the geometric series where the first term is 5 and the common ratio is 3.

**Problem 2:** Find the sum of the infinite geometric series given by  $10 + 5 + 2.5 + \dots$

**Problem 3:** Find the sum of the infinite geometric series represented by:

$$7 - 7/2 + 7/4 - 7/8 + \dots$$

**Problem 4:** If the first term of a geometric series is 4 and the common ratio is  $1/3$ , find the sum of the first 5 terms.

**Problem 5:** Calculate the sum of the infinite geometric series given by:

$$15 + 5 + 5/3 + 5/9 + \dots$$

**Problem 6:** The first term of a geometric series is 20 and the common ratio is 0.2. Find the sum of the first 10 terms.

**Problem 7:** Determine the sum of the infinite geometric series where the first term is 10 and the common ratio is  $1/5$ .

**Problem 8:** Evaluate the sum of the infinite geometric series given by:

$$3/4 + 3/16 + 3/64 + \dots$$

**Problem 9:** Calculate the sum of the first 7 terms of a geometric series where the first term is 15 and the common ratio is 2.

**Problem 10:** A geometric series has a first term of 1 and a common ratio of 2. Determine the sum of the first 10 terms.

# Geometric Series Problems And Answers

**Lei Shi**



## **Geometric Series Problems And Answers:**

*Arithmetic: a Manual of 1000 Questions and Answers Systematically Arranged ...* William Arthur Clark, 1893

**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 **Engineering**

**Mathematics by Example** Robert Sobot, 2025-05-08 This textbook is a complete self sufficient self study tutorial type source of mathematical problems It serves as a primary source for practicing and developing mathematical skills and techniques that will be essential in future studies and engineering practice Rigor and mathematical formalism is drastically reduced while the main focus is on developing practical skills and techniques for solving mathematical problems given in forms typically found in engineering and science These practical techniques are split into three separate books the topics of algebra complex algebra and linear algebra Vol I calculus of single and multiple argument functions Vol II continues and discrete Convolution and Fourier integrals sums of typical functions used in signal processing and Laplace transform examples Vol III

**Precalculus with Trigonometry** Paul A. Foerster, 2003 *Precalculus with Trigonometry Concepts and Applications*

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**Yearbook** National Education Association of the United States.

Department of Superintendence, 1927 Vols for 1925-1937 include list of members The William Lowell Putnam Mathematical Competition 1985-2000: Problems, Solutions, and Commentary Kiran S. Kedlaya, Bjorn Poonen, Ravi Vakil, 2020-01-16 This third volume of problems from the William Lowell Putnam Competition is unlike the previous two in that it places the problems in the context of important mathematical themes. The authors highlight connections to other problems to the curriculum and to more advanced topics. The best problems contain kernels of sophisticated ideas related to important current research and yet the problems are accessible to undergraduates. The solutions have been compiled from the American Mathematical Monthly, Mathematics Magazine, and past competitors. Multiple solutions enhance the understanding of the audience, explaining techniques that have relevance to more than the problem at hand. In addition, the book contains suggestions for further reading, a hint to each problem separate from the full solution, and background information about the competition. The book will appeal to students, teachers, professors, and indeed anyone interested in problem solving as a gateway to a deep understanding of mathematics.

**Elements of finite differences, also solutions to questions set for part i. of the examinations of the Institute of actuaries**, by J. Burn and E. H. Brown, 1902

Problems and Solutions in Ordinary Differential Equations Fred Brauer, John A. Nohel, 1968

**The American Mathematical Monthly**, 1894

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*The West Virginia School Journal*, 1907

**A History of Elementary Mathematics** Florian Cajori, 1898

*Precalculus Mathematics* Karl J. Smith, 1986

**Peterson's Master the GRE** Mark Alan Stewart, 2009-05 A guide to preparing for the Graduate Record Exam, providing test-taking advice, a diagnostic test, reviews of verbal acuity, math, and analytical writing, and nine practice exams with answers and explanations, as well as a CD-ROM with additional resources.

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