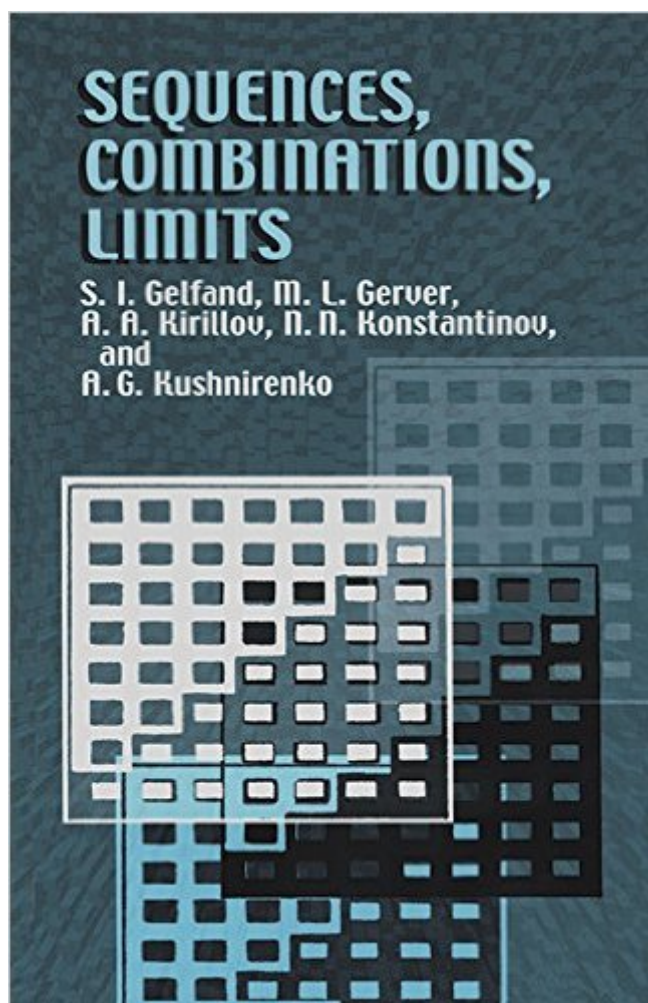


The book was found

# Sequences, Combinations, Limits (Dover Books On Mathematics)



## Synopsis

In a departure from traditional teaching methods, this text focuses on theory more than computations, relying on independent study. Its material is geared toward aspects of high-school mathematics that promise to prove particularly useful for future studies and work. The first of three chapters deals with sequences, their definitions, and methods of mathematic induction. The next chapter addresses combinations, and the final chapter examines limits through a series of introductory problems, problems related to the definition of limit, and problems related to the computation of limits. Answers and hints to the test problems are provided, and "road signs" appear in the margins, marking passages requiring particular attention. 1969 edition.

## Book Information

Series: Dover Books on Mathematics (Book 3)

Paperback: 160 pages

Publisher: Dover Publications (August 30, 2002)

Language: English

ISBN-10: 0486425665

ISBN-13: 978-0486425665

Product Dimensions: 5.3 x 0.3 x 8.6 inches

Shipping Weight: 5.6 ounces (View shipping rates and policies)

Average Customer Review: 4.4 out of 5 starsÂ Â See all reviewsÂ (5 customer reviews)

Best Sellers Rank: #1,036,128 in Books (See Top 100 in Books) #65 inÂ Books > Science & Math > Mathematics > Infinity #179 inÂ Books > Science & Math > Mathematics > Pure Mathematics > Combinatorics #955 inÂ Books > Science & Math > Mathematics > Study & Teaching

## Customer Reviews

This text consists of three chapters of problems, one each on sequences, combinatorics, and limits of sequences. It was designed to supplement mathematics instruction for students in grades 9 and 10, the last two years, of the Soviet school system. The focus is on proving theorems and many of the problems, which are well chosen, are quite challenging. There are hints in the back of the book and complete solutions are provided. Reading these solutions can be instructive because of the insights provided by the authors. There is also a brief section of test problems for which no solutions are provided. The first chapter, written by S. I. Gelfand, contains a brief exposition on sequences and mathematical induction. This exposition is followed by problems on mathematical induction, sequences of differences, and arithmetic and geometric progressions. The problem solving

techniques introduced in this chapter prove useful in the remainder of the text. The second chapter, written by M. L. Gerver and A. G. Kushnirenko, consists of problems on combinatorics including combinations, the Binomial Theorem, and applications to algebra, number theory, and geometry. American readers may not be familiar with the notation  $C_n^k$ , which means the number of ways  $k$  objects can be chosen from  $n$  objects when order does not matter (combinations). The problems in this section are the most tractable and the authors suggest that the reader may want to begin with this section. The final chapter, written by A. A. Kirillov, consists of problems on limits of sequences (including one on a periodic continued fraction) and series, the Triangle Inequality, and the use of quantifiers. Many of these problems would be suitable for a college course in real analysis.

[Download to continue reading...](#)

Sequences, Combinations, Limits (Dover Books on Mathematics) Perennial Combinations: Stunning Combinations That Make Your Garden Look Fantastic Right from the Start (Rodale Garden Book) Perennial Combinations: Stunning Combinations That Make Your Garden Look Fantastic Right from the Start MMA WOD - Combinations: The Seven Deadly Boxing Combinations - And How To Use Them Training Manual for Delineation of the Outer Limits of the Continental Shelf Beyond 200 Nautical Miles for Preparation of Submissions to the Commission on the Limits of the Continental Shelf Jokes For Kids - Joke Books : Funny Books : Kids Books : Books for kids age 9 12 : Best Jokes 2016 (kids books, jokes for kids, books for kids 9-12, ... funny jokes, funny jokes for kids) (Volume 1) Mathematics and the Imagination (Dover Books on Mathematics) Curvature in Mathematics and Physics (Dover Books on Mathematics) The Historical Roots of Elementary Mathematics (Dover Books on Mathematics) Concepts of Modern Mathematics (Dover Books on Mathematics) Mathematics for the Nonmathematician (Dover Books on Mathematics) Foundations and Fundamental Concepts of Mathematics (Dover Books on Mathematics) ASTA String Curriculum: Standards, Goals, and Learning Sequences for Essential Skills and Knowledge in K-12 String Programs 11:11 the Time Prompt Phenomenon: The Meaning Behind Mysterious Signs, Sequences, and Synchronicities NMR: The Toolkit: How Pulse Sequences Work (Oxford Chemistry Primers) Angel Numbers 101: The Meaning of 111, 123, 444, and Other Number Sequences Introduction to Computational Biology: Maps, Sequences and Genomes (Chapman & Hall/CRC Interdisciplinary Statistics) Quaternions and Rotation Sequences: A Primer with Applications to Orbits, Aerospace and Virtual Reality Handbook of MRI Pulse Sequences LIST SERIES: JAMES ROLLINS: SERIES READING ORDER: SIGMA FORCE BOOKS, THE BANNED AND THE BANISHED BOOKS, GODSLAYER BOOKS, JAKE RANSOM BOOKS, TUCKER WAYNE BOOKS, STANDALONE NOVELS BY JAMES ROLLINS

