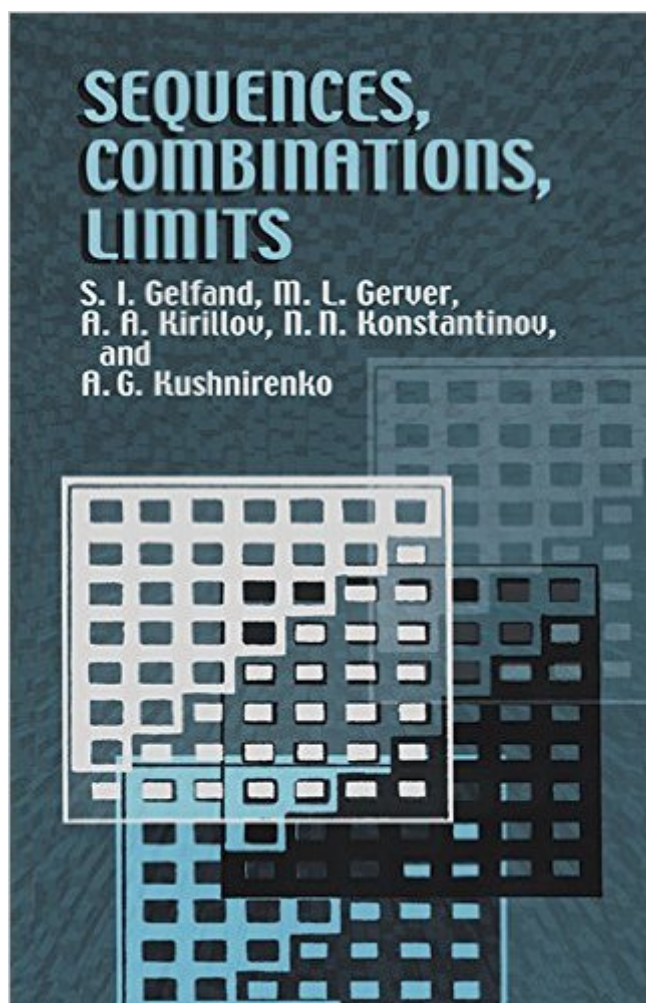


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# Sequences, Combinations, Limits (Dover Books On Mathematics)



## 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

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## 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.

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