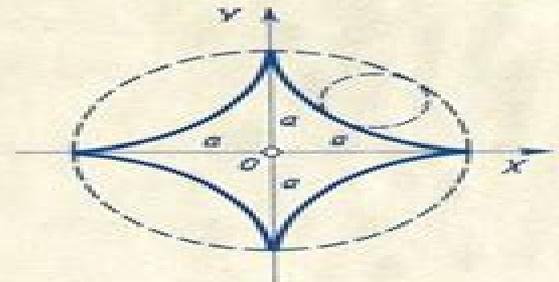


# PROBLEMS IN MATHEMATICAL ANALYSIS

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# Problems In Mathematical Analysis

**Boris Pavlovič Demidovič**



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Readers will also be able to completely grasp a simple and elementary proof of the Prime Number Theorem through several exercises This volume is also suitable for non experts who wish to understand mathematical analysis *Problems in Mathematical Analysis* Boris Demidovich,1962 **Problems in Mathematical Analysis: Continuity and differentiation** Wiesława J. Kaczor, Maria T. Nowak,2000 We learn by doing We learn mathematics by doing problems And we learn more mathematics by doing more problems This is the sequel to *Problems in Mathematical Analysis I* Volume 4 in the Student Mathematical Library series If you want to hone your understanding of continuous and differentiable functions this book contains hundreds of problems to help you do so The emphasis here is on real functions of a single variable The topics include continuous functions the intermediate value property uniform continuity mean value theorems Taylors formula convex functions sequences and series of functions The book is mainly geared toward students studying the basic principles of analysis However given its selection of problems organization and level it would be an ideal choice for tutorial or problem solving seminars particularly those geared toward the Putnam exam It is also suitable for self study The presentation of the material is designed to help student comprehension to encourage them to ask their own questions and to start research The collection of problems will also help teachers who wish to incorporate problems into their lectures The problems are grouped into sections according to the methods of solution Solutions for the problems are provided This is the sequel to *Problems in Mathematical Analysis I* Volume 4 in the Student Mathematical Library series Also available from the AMS is *Problems in Analysis III* *Problems in Real Analysis* Teodora-Liliana Radulescu, Vicentiu D. Radulescu, Titu Andreescu,2009-05-29 *Problems in Real Analysis* Advanced Calculus on the Real Axis features a comprehensive collection of challenging problems in mathematical analysis that aim to promote creative non standard techniques for solving problems This self contained text offers a host of new mathematical tools and strategies which develop a connection between analysis and other mathematical disciplines such as physics and engineering A broad view of mathematics is presented throughout the text is excellent for the classroom or self study It is intended for undergraduate and graduate students in mathematics as well as for researchers engaged in the interplay between applied analysis mathematical physics and numerical analysis **Problems in Mathematical Analysis** Biler,1990-02-09 Chapter 1 poses 134 problems concerning real and complex numbers chapter 2 poses 123 problems concerning sequences and so it goes until in chapter 9 one encounters 201 problems concerning functional analysis The remainder of the book is given over to the presentation of hints answers or referen **Selected Problems in Real Analysis** B. M. Makarov,1992 This book is intended for students wishing to deepen their knowledge of mathematical analysis and for those teaching courses in this area It differs from other problem books in the greater difficulty of the problems some of which are well known theorems in analysis Nonetheless no special preparation is required to solve the majority of the problems Brief but detailed solutions to most of the problems are given in the second part of the book This book is unique in that the authors have aimed to systematize a range of problems that are found in sources that are almost

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