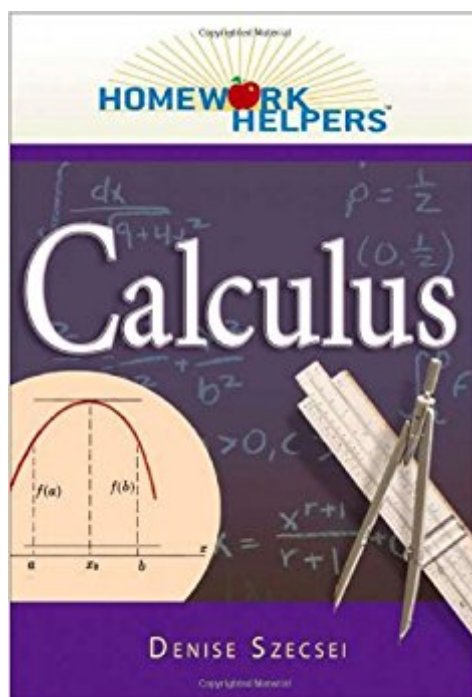


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# Homework Helpers: Calculus (Homework Helpers)



## Synopsis

This title in the Homework Helpers series tackles the most advanced mathematical course in most high schools: Calculus. The concepts are explained in everyday language before the examples are worked. Good habits, such as checking your answers after every problem, are reinforced. There are practice problems throughout the book, and the answers to all of the practice problems are included. The problems are solved clearly and systematically, with step-by-step instructions provided. Particular attention is placed on topics that students traditionally struggle with the most. While this book could be used to supplement a standard calculus textbook, it could also be used by college students or adult learners to refresh long-forgotten concepts and skills. Homework Helpers: Calculus is a straightforward and understandable introduction to differential calculus and its applications. It covers all of the topics in a typical Calculus class, including: Limits Continuity The product, quotient and chain rules Implicit differentiation Related rates Graphical analysis Optimization This book also contains a review of the pre-calculus concepts that form the foundation on which calculus is built.

## Book Information

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## Customer Reviews

This is an excellent review aid or supplement, although the title "Homework Helper" is a misnomer. The book concentrates on important "need to know" concepts, while generally skipping the "nice to know" ones. As expected in a book this small, both breadth and depth of coverage are limited. This is a strength and a weakness. The smaller size means the book keeps its focus on key concepts,

i.e., the foundations of introductory calculus. It also means the book is easier to hold and use than typically much more massive introductory calculus texts and, of course, it means the book can be completed in a much shorter time. However, it also means calculus coverage is significantly limited. Thus, while this is a nice text to help establish a solid calculus foundation, it would be significantly less value as a "homework helper". If extended homework help is needed, more comprehensive problem-solving supplements, particularly those containing a greater variety of problems and solutions, would be required. Over a quarter of the book is devoted to an introductory precalculus review, which includes linear, quadratic, exponential, logarithmic, and trigonometric functions, and the difference quotient. Even though the book presents introductory material in preparation for calculus, readers will need some prior experience with algebra, as terms and symbols are occasionally introduced without prior explanation, e.g., the symbol for union in lesson 1-2. Following the precalculus introduction, the book moves on to limits, continuity, and differential and integral calculus. Of the material devoted to differentiation and integration, about 80% covers differential calculus. The material is presented along with examples that include all key solution steps.

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