
Calculus Express

Calculus Express: A Rapid Review of Calculus AB and Calculus 1 Courses

A Rapid Review of Calculus AB

and Calculus 1 Courses

1st Edition

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Published by Performance Programs Company

Parrish, Florida 34219

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Printed in the United States of America

Preface

Purpose and Benefits of Calculus Express

Calculus Express is a concise, easy-to-study test preparation guide to help students improve their Calculus AB Advanced Placement (AP) exam scores. In addition, this resource is useful for non-Advanced Placement introductory calculus students due to the extensive overlap of material. To maximize relevancy, critical content is modeled after the outline of the Calculus AB AP test promulgated by The College Board.

The primary feature of Calculus Express is that it contains all necessary information in 100+ pages. This enables you to truly cram for the test, Calculus Express: A Rapid Review of Calculus AB and Calculus 1 Courses memorize key formulas, and walk into the exam site having all the key material in your short-term Calculus Express: A Rapid Review of Calculus AB and Calculus 1 Courses memory! You cannot accomplish this using competing exam prep Calculus Express: A Rapid Review of Calculus AB and Calculus 1 Courses books. The Princeton Review's version of Calculus Express, for example, is 900 pages. Kaplan's is 600 pages. These are full-term textbooks, not exam prep test prep tools. You cannot memorize 900 pages of material in cramming for a test – especially one as important as the Calculus AB AP test.

So, if you want a truly rapid review resource, Calculus Express is for you. Take it from the author. I had to go through this – and I wish I had had this invaluable tool for the AB AP exam. No frills, no lengthy explanations.....just key formulas, definitions, and corresponding examples.

Contents

Calculus Express is broken down into five parts:

- Limits
 - Calculus Express: A Rapid Review of Calculus AB and Calculus 1 Courses
- Derivatives
 - Applications of Derivatives
- Integrals
 - Applications of Integrals.

Limits are the foundation of introductory calculus. This section focuses on how to find limits, asymptotes, and the Intermediate Value Theorem.

Once limits have been mastered, we move on to derivatives and their applications. First, derivatives are defined and the derivative rules are covered. Then advanced topics such as average rate of change, instantaneous rate of change, extrema points, the nature of specific functions and related rates will be discussed.

Subsequent sections include integrals and their applications. This includes the Fundamental Theorem of Calculus, integration techniques, and varying uses of integrals.

The book concludes with 10 test taking tips according to Ryan.

About the Author:

Ryan Mettling graduated valedictorian from the University of Central Florida's College of Business Administration with a B.S. in Business Management. He is a partner in Performance Programs Company of Florida, a management training and Calculus Express: A Rapid Review of Calculus AB and Calculus 1 Courses consulting firm specializing in examination preparation materials.

If you like Calculus Express, recommend it to your friends!

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