



Calculus: Concepts and Applications

Paul A. Foerster

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The acclaimed Calculus: Concepts and Applications is now available in a new edition, revised to reflect important changes in the Advanced Placement curriculum, and updated to incorporate feedback from instructors throughout the U.S.

With over 40 years of experience teaching AP Calculus, Paul Foerster developed Calculus: Concepts and Applications with the high school student in mind, but with all the content of a college-level course. Like the previous edition, the second edition follows the AP Calculus curriculum for both AB and BC levels.

In Calculus: Concepts and Applications, students start off with calculus! Review of precalculus occurs at various points when it's needed. The text combines graphing-calculator technology with a unique, real-world application approach, and presents calculus as a study of just four fundamental concepts: limits, derivatives, definite integrals, and indefinite integrals. Students learn these concepts using algebraic, numerical, graphical, and verbal approaches. As a result, students with a wider range of abilities can be successful in calculus, not just those who are strong in algebra. The accompanying set of Explorations in the Instructor's Resource Book, designed for cooperative group work, gives students hands-on experience with new topics before they are formally introduced.

In this new edition, derivatives of transcendental functions, related rates, as well as area and volume applications of the definite integral are introduced earlier. Additionally, the Instructor's Resource Book includes projects utilizing the CBL™, The Geometer's Sketchpad ®, and Fathom Dynamic Statistics™ software, giving students extended opportunities to explore and understand calculus in depth.

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