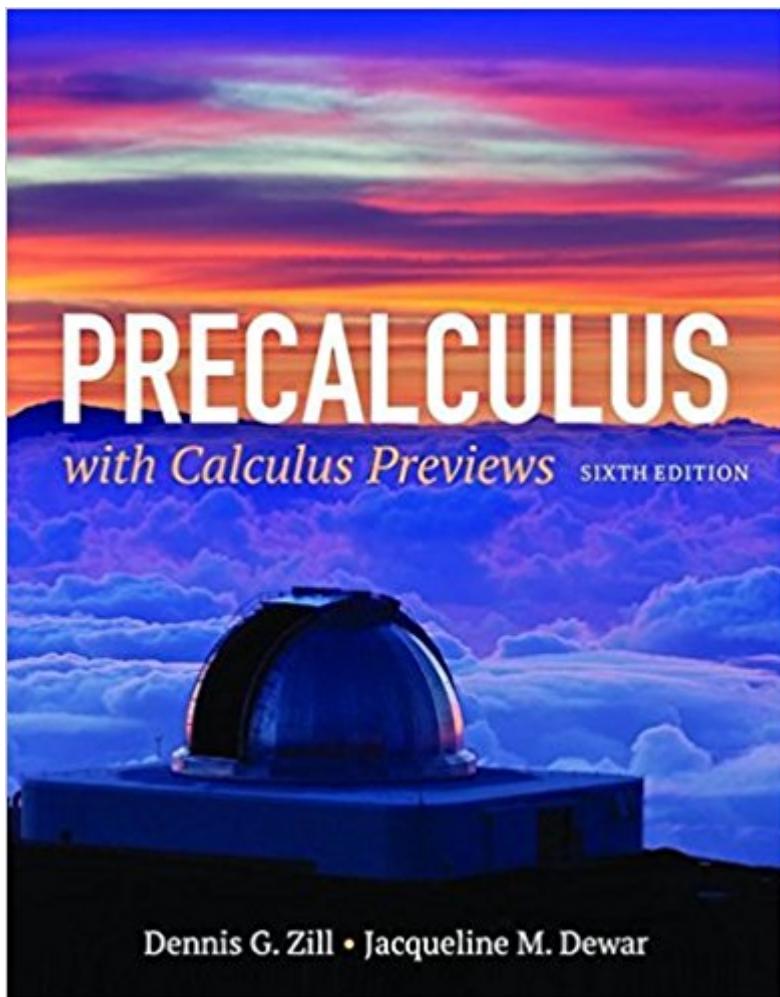


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# Precalculus With Calculus Previews



## Synopsis

Building off the success of Dennis G. Zill and Jacqueline M. Dewar's popular Essentials version, the new Sixth Edition of Precalculus with Calculus Previews continues to include all of the outstanding features and learning tools found in the original text while incorporating additional topics of coverage that some courses may require. With a continued effort to keep the text complete, yet concise, the authors have expanded the number of chapters making the text a clear choice for many mainstream courses. Additional material includes rotation of conics in the rectangular coordinate system, sequences and series, mathematical induction, the Binomial Theorem, systems of equations, partial fractions, systems of inequalities, a brief introduction to counting and probability, and a full discussion of complex numbers. This student-friendly, full-color text offers numerous exercise sets and examples to aid in students' learning and understanding, and graphs and figures throughout serve to better illuminate key concepts. The exercise sets include engaging problems that focus on algebra, graphing, and function theory, the subtext of so many calculus problems. The authors are careful to use the terminology of calculus in an informal and comprehensible way to facilitate the student's successful transition into future calculus courses. New to the Sixth Edition: - Increased number of student aids throughout the text including, examples, figures, marginal annotations, in-example guideline annotations, and Notes from the Classroom sections - Many sections have been rewritten to increase clarity and improve student understanding - Increased number of Calculator/Computer Problems and For Discussion Problems throughout the text - An expanded Final Examination consists of fill-in-the-blank questions, true/false questions, and review exercises - And much more! Key Features: Translating Words into Functions section illustrates how to translate a verbal description into a symbolic representation of a function and demonstrates these translations with actual calculus problems. Chapter Review Exercises include problems that focus on algebra, graphing and function theory, the sub-text of so many calculus problems. Review questions include conceptual fill-in-the-blank and true-false questions, as well as numerous thought-provoking exercises. The Calculus Preview found at the end of each chapter offers students a glimpse of a single calculus concept along with the algebraic, logarithmic, and trigonometric manipulations that are necessary for the successful completion of typical problems related to that concept. Available with WebAssign.

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