College Algebra and Trigonometry

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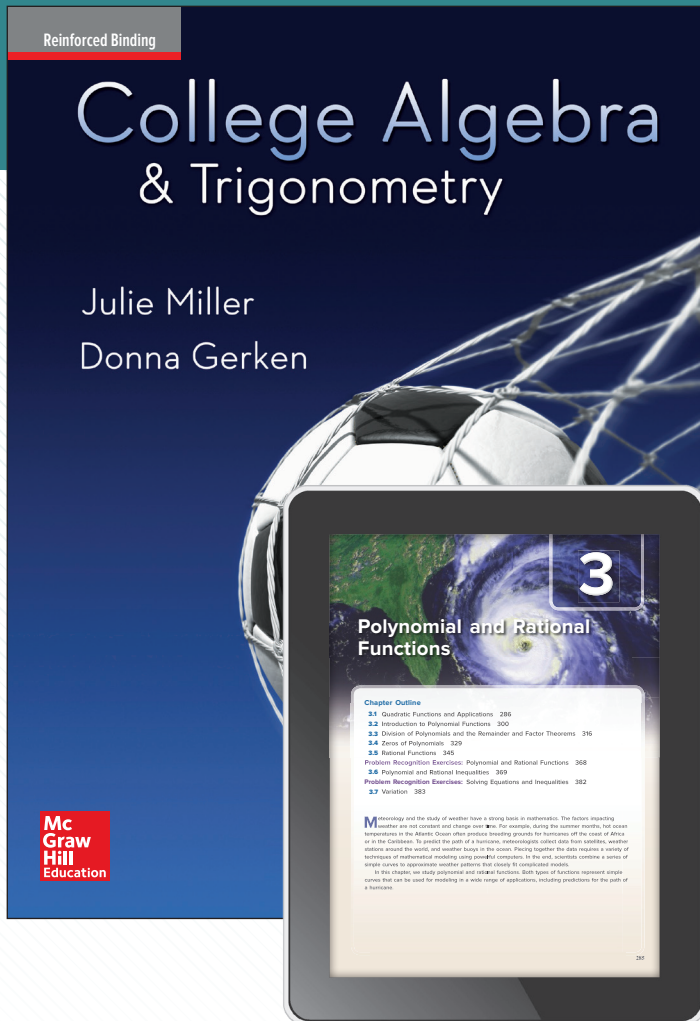
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Miller

Comprehensive Solution for College Algebra and Trigonometry

Prepare your students to meet the challenges of your honors algebra or dual enrollment course with *College Algebra & Trigonometry*. Authors Julie Miller and Donna Gerken are known for their clear, concise writing style, highly effective pedagogical features, and complete author-created technology package that helps students build a solid foundation in mathematics. *College Algebra & Trigonometry* provides students with a clear and logical presentation of basic concepts that will prepare them for continued study in mathematics, and helps students develop logical thinking and problem-solving skills that will benefit them in all aspects of life. This text is filled with tools and features that aid in student understanding and ensure comprehension of all course content.

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College Algebra & Trigonometry

Julie Miller
Donna Gerken

Mc Graw Hill Education

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Polynomial and Rational Functions

Meteorology and the study of weather have a strong basis in mathematics. The factors impacting weather are not constant and change over time. For example, during the summer months, hot ocean temperatures in the Atlantic Ocean often produce breeding grounds for hurricanes off the coast of Africa or in the Caribbean. To predict the path of a hurricane, meteorologists collect data from satellites, weather stations around the world, and weather buoys in the ocean. Piecing together the data requires a variety of techniques of mathematical modeling using powerful computers. In the end, scientists combine a series of simple curves to approximate weather patterns that closely fit complicated models.

In this chapter, we study polynomial and rational functions. Both types of functions represent simple curves that can be used for modeling in a wide range of applications, including predictions for the path of a hurricane.

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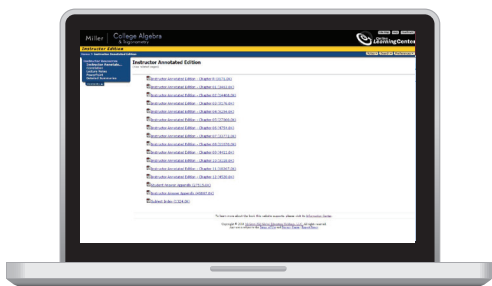
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