

# Algebra 2 Student Edition

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Rational exponents and radical functions -- Exponential and logarithmic functions -- Rational functions -- Quadratic relations and conic sections -- Counting methods and

probability -- Data analysis and statistics -- Sequences and series -- Trigonometric ratios and functions -- Trigonometric graphs, identities, and equations.

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today and tomorrow - Appropriate for students who are approaching, on or beyond grade level Differentiation - Integrated differentiated instruction support that includes Response to Intervention (Rti) strategies - A complete assessment system that monitors student progress from diagnosis to mastery - More in-depth and rigorous mathematics, yet meets the needs of all students 21st Century Success - Preparation for student success beyond high school in college or at work - Problems and activities that use handheld technology, including the TI-84 and the TI-Nspire - A wealth of digital resources such as eStudent Edition, eTeacher Edition, animations, tutorials, virtual manipulatives and assessments right at your fingertips Includes print student edition Algebra 2, 3rd ed. will shape your student's worldview by emphasizing how mathematics helps Christians serve others and glorify God. Each chapter opener presents an interesting real-world application and a clearly stated Biblical Worldview Connection. The consolidated Dominion Modeling feature in each chapter illustrates how the mathematical topic can enhance our service for Christ. Each lesson contains a thorough development of key concepts and detailed examples to promote student comprehension. Practical applications are integrated throughout. Expanded exercise sets graded by A, B, and C difficulty levels allow teachers to assign work based on the student's skill level. Each lesson also contains additional cumulative review exercises strategically designed to help students retain information from previous lessons and be prepared for the next lesson. Algebra 2 covers concepts such as linear, quadratic,

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polynomial, radical, and rational functions, exponential and logarithmic functions, and probability and statistics. Complex numbers are also covered throughout the text. Two new chapters cover matrix features and sequencing and series. New features include carefully selected Internet keyword searches for helping students locate online tools and enrichment, college entrance test preparation questions, Technology Corners emphasizing the use of graphing calculators and spreadsheets, and optional programming projects. - Publisher.

Empower your students with engaging mathematics delivering the content needed to meet today's standards for Algebra.

Learn math in a guided discovery format. These "teaching textbooks" are designed to let students learn at their own pace. Summit Math books are for curious students who want learning to feel like a journey. The scenarios are arranged to show how new math concepts are related to previous concepts they have already learned. Students naturally learn at different paces and these books help teachers manage flexible pacing in their classes. Learn more at [www.summitmathbooks.com](http://www.summitmathbooks.com). Topics in this book: Comparing Independent And Dependent Quantities Representing A Function With An Equation Or A Graph Increasing, Decreasing, Or Constant The Domain And Range Of A Function More Scenarios That Involve Functions Cumulative Review Answer Key This

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book introduces you to functions to build a foundation for learning about specific types of functions in later Summit Math books. Using a wide variety of scenarios that involve functions, this book shows you how to identify increasing, decreasing and constant intervals as well as the domain and range of a function. Without using the phrase "piecewise functions," this book develops an introductory understanding of what they are by guiding you through the process of graphing only part of a function and thinking about how to restrict the domain. Each concept is developed gradually to show that new ideas build on topics you are already familiar with. Student testimonials: "This is the best way to learn math." "Summit Math books are unlike typical textbooks. It doesn't matter how you learn or what speed you go at...you can learn at your own pace while still understanding all the material." "Summit Math Books have guided me through algebra. They are the stepping stones of what it takes to think like a mathematician..." "I really enjoy learning from these books...they clearly demonstrate how concepts are built over other concepts." "You don't just memorize, you actually understand it." Parent testimonials: "Summit Math Books not only helped my daughter learn the math, they helped her to love learning math in and of itself! Summit Math books have a fun, self-paced way to explain math concepts..." "I am absolutely thrilled with this math program. The books are

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so well organized and the content builds from one lesson to the next." "We are really impressed and grateful for our boys' understanding of what the math means, not just how to get problems right...we should all learn to understand math this way." "As the mother of a teenage daughter who previously had occasional difficulty in math, it was refreshing to watch her actually enjoy her math class and to understand the subject matter without struggling" "I have three kids that have used Summit Math. Using these books, they have more freedom to learn and explore at their own pace during class, with notes already incorporated within the book." Teacher testimonials: "Summit Math allows students to work at their own pace which allows me the opportunity to provide individualized attention to those who need it..." "Summit Math emphasizes understanding concepts rather than memorizing rules. Students take ownership while acquiring the necessary skills to solve meaningful math problems..." "It has been a real benefit having problem sets that are explicitly designed to guide students through the development of their understanding of the how and why behind the concepts they are studying." See more testimonials at [www.summitmathbooks.com](http://www.summitmathbooks.com).

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instruction. Algebra 2 reinforces trigonometry concepts and provide practice with statistics. Real-world problems and applications for other subjects like physics and chemistry are also included. Graphing calculator labs investigate and model mathematical situations. - Publisher.

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