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	Nota di contenuto	Cover -- Table of Contents -- Review of Basic Concepts -- 1. Sets -- 2. Real Numbers and Their Properties -- 3. Polynomials -- 4. Factoring Polynomials -- 5. Rational Expressions -- 6. Rational Exponents -- 7. Radical Expressions -- 1. Equations and Inequalities -- 1. Linear Equations -- 2. Applications and Modeling with Linear Equations -- 3. Complex Numbers -- 4. Quadratic Equations -- 5. Applications and Modeling with Quadratic Equations -- 6. Other Types of Equations and Applications -- 7. Inequalities -- 8. Absolute Value Equations and Inequalities -- 2. Graphs and Functions -- 1. Rectangular Coordinates and Graphs -- 2. Circles -- 3. Functions -- 4. Linear Functions -- 5. Equations of Lines and Linear Models -- 6. Graphs of Basic Functions -- 7. Graphing Techniques -- 8. Function Operations and Composition -- 3. Polynomial and Rational Functions -- 1. Quadratic Functions and Models -- 2. Synthetic Division -- 3. Zeros of Polynomial Functions -- 4. Polynomial Functions: Graphs, Applications, and Models -- 5. Rational Functions: Graphs, Applications, and Models -- 6. Variation -- 4. Inverse, Exponential, and Logarithmic Functions -- 1. Inverse Functions -- 2. Exponential Functions -- 3. Logarithmic Functions -- 4. Evaluating Logarithms and the Change-of-Base Theorem -- 5. Exponential and Logarithmic Equations -- 6. Applications and Models of Exponential Growth and Decay -- 5. Systems and Matrices -- 1. Systems of Linear Equations -- 2. Matrix Solution of Linear Systems -- 3. Determinant Solution of Linear Systems -- 4. Partial Fractions -- 5. Nonlinear Systems of Equations -- 6. Systems of Inequalities and Linear

Programming -- 7. Properties of Matrices -- 8. Matrix Inverses -- 6. Analytic Geometry -- 1. Parabolas -- 2. Ellipses -- 3. Hyperbolas -- 4. Summary of the Conic Sections -- 7. Further Topics in Algebra -- 1 Sequences and Series.
2 Arithmetic Sequences and Series -- 3 Geometric Sequences and Series -- 4 The Binomial Theorem -- 5 Mathematical Induction -- 6 Counting Theory -- 7 Basics of Probability -- Index.

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