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Autore	Lial Margaret
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Multiplying and Dividing -- 2. Adding and Subtracting Rational Expressions -- 3. Complex Fractions -- 4. Equations with Rational Expressions and Graphs -- 5. Applications of Rational Expressions -- 6. Variation -- 8. Roots, Radicals, and Root Functions. 1. Radical Expressions and Graphs -- 2. Rational Exponents -- 3. Simplifying Radical Expressions -- 4. Adding and Subtracting Radical Expressions -- 5. Multiplying and Dividing Radical Expressions -- 6. Solving Equations with Radicals -- 7. Complex Numbers -- 9. Quadratic Equations, Inequalities, and Functions -- 1. The Square Root Property and Completing the Square -- 2. The Quadratic Formula -- 3. Equations Quadratic in Form -- 4. Formulas and Further Applications -- 5. Graphs of Quadratic Functions -- 6. More About Parabolas and Their Applications -- 7. Polynomial Rational Inequalities -- 10. Inverse, Exponential, and Logarithmic Functions -- 1. Inverse Functions -- 2. Exponential Functions -- 3. Logarithmic Functions -- 4. Properties of Logarithms -- 5. Common and Natural Logarithms -- 6. Exponential and Logarithmic Equations -- Further Applications -- 11. Nonlinear Functions, Conic Sections, and Nonlinear Systems -- 1. Additional Graphs and Functions -- 2. The Circle and the Ellipse -- 3. The Hyperbola and Functions Defined by Radicals -- 4. Nonlinear Systems of Equations -- 5. Second-Degree Inequalities and Systems of Inequalities -- Appendix: Determinants and Cramer's Rule -- Appendix: Synthetic Division -- Glossary -- Useful Mathematical References -- 12. Student's Solutions Manual to accompany Review of the Real Number System -- 13. Student's Solutions Manual to accompany Linear Equations, Inequalities, and Applications -- 14. Student's Solutions Manual to accompany Graphs, Linear Equations, and Functions -- 15. Student's Solutions Manual to accompany Systems of Linear Equations -- 16. Student's Solutions Manual to accompany Exponents, Polynomials, and Polynomial Functions -- 17. Student's Solutions Manual to accompany Factoring -- 18. Student's Solutions Manual to accompany Rational Expressions and Functions. 19. Student's Solutions Manual to accompany Roots, Radicals, and Root Functions -- 20. Student's Solutions Manual to accompany Quadratic Equations, Inequalities, and Functions -- 21. Student's Solutions Manual to accompany Inverse, Exponential, and Logarithmic Functions -- 22. Student's Solutions Manual to accompany Nonlinear Functions, Conic Sections, and Nonlinear Systems -- Index.

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## Sommario/riassunto

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