



Title: Beginning Algebra, 6th Edition
Author: Man M. Sharma, Clark Atlanta University
ISBN: 978-1-888469-92-9

431 pages : 8 1/2 x 11 : 4 Color : Soft Cover

Teaching and Learning Resources:

Student Access Code packaged with each new copy of the text book
 Solution Manuals for teachers and students

Online Teaching and Learning at <http://www.educosoft.com>

Table of Contents

1. Review of Pre-Algebra

- 1.1 Review of Integers
- 1.2 Review of Fractions
- 1.3 Review of Decimal Numbers and Square Roots
- 1.4 Review of Percents
- 1.5 Real Number System
- 1.6 Translations: Statements to Math Expressions

2. Linear Equations / Inequalities in One Variable

- 2.1 Simplifying Expressions
- 2.2 Solving Linear Equations in One Variable
- 2.3 More on Solving Linear Equations
- 2.4 Applications of Linear Equations
- 2.5 Literal Equations
- 2.6 Ratios and Proportions
- 2.7 Applications
- 2.8 Solutions of Linear Inequalities

3. Linear Equations / Inequalities in Two Variables

- 3.1 Linear Equations in Two Variables
- 3.2 Graphing Linear Equations in Two Variables
- 3.3 Slope of a Line
- 3.4 Equation of a Line
- 3.5 Graphing Linear Inequalities in Two Variables
- 3.6 Functions and Relations

4. Systems of Linear Equations and Inequalities

- 4.1 Solutions using Graphs
- 4.2 Solutions using Substitution
- 4.3 Solutions using Elimination by Addition
- 4.4 Solving Systems of Linear Inequalities
- 4.5 Applications

5. Exponents and Polynomials

- 5.1 Exponents
- 5.2 Polynomials
- 5.3 Multiplication of Polynomials
- 5.4 Special Products
- 5.5 Integer Exponents
- 5.6 Quotient of Two Polynomials
- 5.7 Scientific Notation

6. Factoring and Quadratic Equations and Inequalities

- 6.1 Factors, Greatest Common Factor (GCF)
- 6.2 Factoring Trinomials
- 6.3 Special Factorization
- 6.4 Solving Quadratic Equations by Factoring
- 6.5 Applications of Quadratic Equations

7. Rational Expressions

- 7.1 Evaluating Rational Expressions
- 7.2 Simplifying Rational Expressions
- 7.3 Multiplying and Dividing Rational Expressions
- 7.4 LCD of Rational Expressions
- 7.5 Adding and Subtracting of Rational Expressions
- 7.6 Complex Fractions
- 7.7 Solving Equations with Rational Expressions
- 7.8 Applications

8. Roots and Radicals

- 8.1 Finding Roots
- 8.2 Multiplication and Division of Radicals
- 8.3 Addition and Subtraction of Radicals
- 8.4 Rationalizing the Denominator
- 8.5 Fractional Exponents
- 8.6 Solving Equations with Radicals

9. Solution of Quadratic Equations

- 9.1 Square Root Property
- 9.2 Completing the Square
- 9.3 The Quadratic Formula
- 9.4 Solution by Graphing