TABLE OF CONTENTS Grade 8 - Algebra I

0. Review of Grade 7

- 0.1 Integers and Application
- 0.2 Basic Geometry
- 0.3 Fraction
- 0.4 Decimal and Percent

1. Real Number System

1.1 Real Numbers

2. Expressions Equations and Functions

- 2.1 Exponents; Order of Operations; Evaluating Numerical Expressions
- 2.2 Translations; Simplifying and Evaluating Expressions; and Computing Averages
- 2.3 Functions and Relations

3. Solve Linear Equations

- 3.1 Solving Linear Equations in one variable
- 3.2 Ratios and Proportions

4. Graph Linear Equations and Functions

- 4.1 Linear Equations in Two Variables
- 4.2 Graphing Linear Equations in Two Variables

5. Write Linear Equations

- 5.1 Slope of a Line
- 5.2 Equation of a Line

6. Solve and Graph Linear Inequations

- 6.1 Solutions of Linear Inequalities
- 6.2 Equations and Inequalities with Absolute Values
- 6.3 Graphing Linear Inequalities in 2 Variables

7. Systems of Equations and Inequalities

- 7.1 Solving by Graphs
- 7.2 Solving using Substitution
- 7.3 Solving using Elimination by Addition and Linear Inequalities

8. Exponents and Exponential Functions

- 8.1 Exponents
- 8.2 Integer Exponents
- 8.3 Exponential Functions

9. Polynomials and Factoring

Copyright 2024 Educo International Inc. All Rights Reserved



TABLE OF CONTENTS

- 9.1 Polynomials
- 9.2 Multiplication of Polynomials
- 9.3 Factoring Trinomials
- 9.4 Special Factorization

10. Quadratic Equations and Functions

- 10.1 Solving Quadratic Equations by Factoring
- 10.2 Square Root Property
- 10.3 Completing the Square
- 10.4 The Quadratic Formula and Graphing

Copyright 2024 Educo International Inc. All Rights Reserved

