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Course Outline

Chapter 1 THE REAL NUMBER SYSTEM
1.1 Real Numbers: Order and Absolute Value
1.2 Adding and Subtracting Integers
1.3 Multiplying and Dividing Integers
1.4 Operations with Rational Numbers
1.5 Exponents, Order of Operations and Properties of Real Numbers

Chapter 2 FUNDAMENTALS OF ALGEBRA
2.1 Writing and Evaluating Algebraic Expressions
2.2 Simplifying Algebraic Expressions
2.3 Algebra and Problem Solving
2.4 Introduction to Equations

Chapter 3 LINEAR EQUATIONS AND PROBLEM SOLVING
3.1 Solving Linear Equations
3.2 Equations That Reduce to Linear Form
3.3 Problem Solving with Percents
3.4 Ratios and Proportions **
3.5 Geometric and Scientific Applications
3.6 Linear Inequalities

Chapter 4 EQUATIONS AND INEQUALITIES IN TWO VARIABLES
4.1 Ordered Pairs and Graphs
4.2 Graphs of Equations in Two Variables
4.3 Slope and Graphs of Linear Equations
4.4 Equations of Lines
4.5 Graphs of Linear Inequalities **

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Chapter 5 EXPONENTS AND POLYNOMIALS

5.1 Negative Exponents and Scientific Notation
5.2 Adding and Subtracting Polynomials
5.3 Multiplying Polynomials: Special Products
5.4 Dividing Polynomials

Chapter 6 FACTORING AND SOLVING EQUATIONS

6.1 Factoring Polynomials with Common Factors
6.2 Factoring Trinomials
6.3 More About Factoring Trinomials
6.4 Factoring Polynomials with Special Forms
6.5 Solving Quadratic Equations by Factoring

NOTES:

1. INSTRUCTORS OF COURSES THAT HAVE MULTIPLE SECTIONS MUST CONSULT WITH EACH OTHER TO DESIGN FINAL EXAMS THAT TEST THE SAME TOPICS.

2. Calculators that perform symbolic manipulations (TI-92, etc.) are not permitted for exams and/or quizzes.

3. If you cover the material in Chapter 1, do so quickly.

4. Discuss Scientific Notation in Section 5.1 as it applies to the calculator.