

MATHEMATICS

Algebra and An Introduction to Trigonometry

I. ALGEBRA

60%

A. Solving Equations

1. Solving Equations Using Subtraction, Addition, Multiplication, and Division
2. Solving Equations Using More Than One Operation
3. Solving Equations Containing Parentheses
4. Solving Equations with Variables on Both Sides
5. Writing Percent Equations

B. Linear Equations and Functions

1. Equations with Two Variables
2. Linear Equations
3. Slope of a Line
4. Slope-Intercept Form
5. The Standard Form
6. Composition of Functions

C. Inequalities

1. Solving Inequalities Using Addition, Subtraction, Multiplication, and Division
2. Solving Inequalities Using More Than One Step

D. Exponents

1. Finding Powers
2. Multiplying with Exponents
3. Rules for Multiplication
4. Rules for Division
5. Zero as an Exponent
6. Negative Exponents

E. Quadratic Equations

1. Quadratic Equations
2. Solving Quadratic Equations
3. Zeros and the Quadratic Formula

F. Polynomials and Factoring

1. Polynomials
2. Adding and Subtracting Polynomials
3. Multiplying by a Monomial
4. Factors
5. Factoring by Finding the Greatest Common Factor
6. Factoring Trinomials
7. Using the Zero Product Property

A. Angles

1. Classifying Angles
2. Adding and Subtracting Angle Measures
3. Complementary and Supplementary Angles
4. Congruent Angles
5. Vertical Angles
6. Angle Bisectors

B. Triangles

1. Classifying Triangles by Angles
2. Angle Sum Theorem
3. Exterior Angles of a Triangle
4. Classifying Triangles by Sides

C. Right Triangles

1. Parts of a Right Triangle
2. Pythagorean Theorem
3. Special Right Triangles

D. Right Triangle Trigonometry

1. Trigonometric Ratios
2. Tangent Ratio
3. Sine Ratio
4. Cosine Ratio