

MATH 120 PREREQUISITE SKILLS

LINEAR EQUATIONS AND INEQUALITIES

1. Solve linear equations and inequalities
2. Solve literal equations
3. Graph linear equations in slope-intercept form
4. Find the equation of a line through two points
5. Solve applications involving linear equations and inequalities

SYSTEMS OF EQUATIONS

1. Solve 2×2 systems graphically & algebraically
2. Identify systems as consistent, inconsistent, or dependent
3. Solve applications involving linear systems

GENERAL FUNCTIONS

1. Apply the vertical line test to determine if a graph is that of a function
2. Find the domain and range of a function from a graph
3. Find the domain of a function from its equation
4. Evaluate functions
5. Add, subtract, multiply and divide functions
6. Given two functions, find their composite function

QUADRATIC FUNCTIONS AND EXPRESSIONS

7. Factor quadratic expressions of one variable
8. Solve quadratic equations using the quadratic formula
9. Graph a parabola by finding its intercepts and vertex
10. Solve applications involving quadratic equations

RATIONAL FUNCTIONS AND EXPRESSIONS

1. Simplify rational expressions
2. Add, subtract, multiply and divide rational expressions
3. Simplify complex fractions
4. Solve rational equations
5. Simplify expressions with rational exponents using laws of exponents

EXPONENTIAL FUNCTIONS AND EXPRESSIONS

1. Find n th roots of numbers
2. Simplify radical expressions containing variable terms

LOGARITHMIC FUNCTIONS AND EXPRESSIONS

1. Write exponential statements as equivalent logarithmic statements, and vice versa
2. Simplify expressions using laws of logarithms