

## Readiness & Review for Algebra 2: Principles of Secondary Mathematics

### Multi-Step Equations

- ✓ Solve multi-step equations.

### Solving Literal Equations

- ✓ Solve a formula for the indicated variable.

### Graphing Linear Inequalities on the Coordinate Plane

- ✓ Graph a linear inequality.
- ✓ Graph a system of linear inequalities.

### Solving Systems of Equations Algebraically

- ✓ Solve a system of equations using substitution or elimination.

### Simplifying Polynomial Expressions

- ✓ Simplify polynomial expressions.
- ✓ Classify polynomial expressions.

### Factoring

- ✓ Factor out the greatest common factor.
- ✓ Factor by grouping.
- ✓ Factor special patterns.

### Factoring Completely

- ✓ Factor a polynomial expression completely.

### Exponent Rules

- ✓ Simplify expressions with exponent rules.

### Simplifying Radicals

- ✓ Simplify square root and cube root expressions.

### Functions

- ✓ Determine if a graph is a function.
- ✓ Write equations in terms of  $y$  or  $f(x)$ .

### Domain and Range

- ✓ Name the domain and range from a relation, table, or graph.
- ✓ Determine if a function exists from the domain and range.

### Describing Parabolas

- ✓ Write a quadratic equation in vertex form.
- ✓ Describe the transformations of a parabola.