

Algebra 1 - Module 1

Operations with Real Numbers and Expressions

A1.1.1.1 **A1.1.1.1 Represent and/or use numbers in equivalent forms (e.g., integers, fractions, decimals, percents, square roots, and exponents).**

A Compare and/or order any real numbers. [A1.1.1.1.1](#)

B Simplify square roots [A1.1.1.1.2](#)

A1.1.1.2 **Apply number theory concepts to show relationships between real numbers in problem-solving settings.**

A Find the Greatest Common Factor (GCF) and/or the Least Common Multiple (LCM) for sets of monomials. [A1.1.1.2.1](#)

A1.1.1.3 **Use exponents, roots, and/or absolute values to solve problems.**

A Simplify/evaluate expressions involving properties/laws of exponents, roots, and/or absolute values to solve problems. [A1.1.1.3.1](#)

A1.1.1.4 **Use estimation strategies in problem-solving situations.**

A Use estimation to solve problems. [A1.1.1.4.1](#)

A1.1.1.5 **Simplify expressions involving polynomials.**

A Add, subtract, and/or multiply polynomial expressions (express answers in simplest form). [A1.1.1.5.1](#)

B Factor algebraic expressions, including difference of squares and trinomials. [A1.1.1.5.2](#)

C Simplify/reduce a rational algebraic expression. [A1.1.1.5.3](#)

Linear Equations

A1.1.2.1 **Write, solve, and/or graph linear equations using various methods.**

A Write, solve, and/or apply a linear equation (including problem situations). [A1.1.2.1.1](#)

B Use and/or identify an algebraic property to justify any step in an equation-solving process. [A1.1.2.1.2](#)

C Interpret solutions to problems in the context of the problem situation. [A1.1.2.1.3](#)

A1.1.2.2 Write, solve, and/or graph systems of linear equations using various methods.

- A Write and/or solve a system of linear equations (including problem situations) using graphing, substitution, and/or elimination. [A1.1.2.2.1](#)
- B Interpret solutions to problems in the context of the problem situation. [A1.1.2.2.2](#)

Linear Inequalities

A1.1.3.1 Write, solve, and/or graph linear inequalities using various methods.

- A Write or solve compound inequalities and/or graph their solution sets on a number line (may include absolute value inequalities). [A1.1.3.1.1](#)
- B Identify or graph the solution set to a linear inequality on a number line. [A1.1.3.1.2](#)
- C Interpret solutions to problems in the context of the problem situation. [A1.1.3.1.3](#)

A1.1.3.2 Write, solve, and/or graph systems of linear inequalities using various methods.

- A Write and/or solve a system of linear inequalities using graphing. [A1.1.3.2.1](#)
- B Interpret solutions to problems in the context of the problem situation. [A1.1.3.2.2](#)