

Algebra 1 – Unit 6: Exponents and Polynomials

Expectations, Essential Questions, Enduring Understandings, Indicators and Vocabulary

Expectation

1.1 analyze a wide variety of patterns and functional relationships using the language of mathematics and appropriate technology.

Essential Question

What different information is obtained from equivalent forms of algebraic expressions?

How can algebraic expressions be transformed?

Enduring Understanding

Equivalent forms of algebraic expressions provide different information for solving problems.

Indicators

1.1.3 apply addition, subtraction, multiplication, and/or division of algebraic expressions to mathematical and real-world problems.

1.1.3.1 simplify expressions using the laws of exponents.

1.1.3.2 write polynomials in standard form.

1.1.3.3 add and subtract polynomials.

1.1.3.4 multiply polynomials.

1.1.3.5 divide a polynomial by a monomial.

1.1.3.6 represent a polynomial as a product of a monomial and a polynomial.

1.1.3.7 represent a quadratic polynomial as a product of two linear factors.

Vocabulary

binomial

constant

degree of a polynomial

monomial

polynomial

trinomial