

Topic: UNIT 9 POLYNOMIALS and FACTORING

Subject(s):

Days: 15

Grade(s):

Key Learning: How to use the arithmetic operators with polynomials and be capable of solving and factoring polynomials using various methods.



Unit Essential Question(s): How performing basic operations on polynomials with solving and factoring polynomials are used ?

Concept:
Basic operations with polynomials

Concept:
Algebraic methods of manipulating polynomials

Lesson Essential Question(s):
How do you add and subtract polynomials? (A)

How do multiply polynomials? (A)

How do you use special product patterns to multiply binomials? (A)

Lesson Essential Question(s):
How do you solve polynomial equations in factored form? (A)

How do you factor trinomials of the form $ax^2 + bx + c$, where a, b, c, represents real numbers and $a = 1$? (A)

How do you factor trinomials of the form $ax^2 + bx + c$, where a, b, c represents real numbers and $a \neq 1$? (A)

How do you factor special products? (A)

How do you factor polynomials completely? (A)

Vocabulary:
monomial, degree of monomials, polynomials, degree of polynomials, leading coefficient, binomials, trinomials, rational function

Vocabulary:
roots, zeros of a function, perfect square trinomials, factor by grouping, factor completely, vertical motion model

Additional Information:
Unit 9 sections 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8

Attached Document(s):

Vocab Report for Topic: UNIT 9 POLYNOMIALS and FACTORING

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Concept: Basic operations with polynomials

monomial, degree of monomials, polynomials, degree of polynomials, leading coefficient, binomials, trinomials, rational function -

Concept: Algebraic methods of manipulating polynomials

roots, zeros of a function, perfect square trinomials, factor by grouping, factor completely, vertical motion model -