

Name

8.1 Add and Subtract

Polynomials

Alg I

I can add and subtract polynomials.

Monomial: a number, a variable, or a number with a variable and whole number exponents

Example - 10 , $3x$, $\frac{1}{2}ab^2$, $-1.8m^5$

Ch. 8 Quiz

Degree of a monomial: The sum of the exponents of the variables in the monomial

Ch. 7/8 Test

Polynomial: a monomial or a sum of monomials

Should be written in order of decreasing exponents

Degree of a Polynomial: The greatest degree of its terms

Leading Coefficient: The coefficient of the 1st term in a polynomial

Example 1:

$$1) \quad 5y^2 - 2y^2 + 9 - 7 - 2y^2 + 5y + 9$$

leading coefficient: -2
degree: 2

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I can add and subtract polynomials.

Binomial: A polynomial with 2 terms.

Trinomial: A polynomial with 3 terms

Ch. 8 Quiz

Example 2:

Ch. 7/8 Test

2) $y^3 - 4y + 3$ It is a polynomial/
3rd degree trinomial

Example 3:

* Complete Skills Practice, pg. 499, #

3) $(5x^3 + 4x - 2x) + (4x^2 + 3x^3 - 6)$
 $5x^3 + 3x^3 + 4x^2 + 4x - 2x - 6$
 $8x^3 + 4x^2 + 2x - 6$

Example 4:

4) $(4x^2 - 7x) - (5x^2 + 4x - 9)$
 $4x^2 - 7x - 5x^2 - 4x + 9$
 $4x^2 - 5x^2 - 7x - 4x + 9$
 $-x^2 - 11x + 9$