

- Combine like terms.

Examples

$$(3x^2 + 4x) + (-6x^2 + x) =$$

- Do NOT change exponents on the variables.

$$(5x^2 - 8) + (2x^2 - 3x + 1) =$$

- Be careful of negative signs!

Examples

$$(3x^2 + 4x) - (6x^2 + x) =$$

$$(5x^2 - 8) - (2x^2 - 3x + 1) =$$

- Change subtract to add and change the sign on every term in the 2<sup>nd</sup> polynomial.

- Follow the rules of adding.

- Distribute monomial to each term in the polynomial.

Examples

$$3x^2 (4x^4 - 2x^2 + x) =$$

- For 2 binomials, FOIL or box.

$$(x + 3)(x - 7) =$$

- Remember to multiply coefficients and add exponents.

Examples

$$\frac{36x^5 - 24x^4 + 12x^3}{12x^3} =$$

$$\frac{15x^2y^2 - 35xy}{5x} =$$

- Divide each term by the divisor.

- Remember to divide coefficients and subtract exponents.

- Do NOT “cancel” any terms.

Subtract  
Polynomials

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Add  
Polynomials

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# Operations with Polynomials

## *Review*

Divide  
Polynomials

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Multiply  
Polynomials

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