

w↑



- Give the slope and y-intercept of the graph of the equation.
 1. $y = 4x - 2$
 2. $y = \frac{2}{3}x + \frac{4}{5}$
 3. $2x - y = 8$

- Simplify
 1. $2x + 5 - 7x - 7$
 2. $7 - (2x + 8) - 3$

Adding and Subtracting Polynomials

10.1

Adding Polynomials

- Find the sum.
- Write your answer in standard form.

$$(5x^3 - x + 2x^2 + 7) + (3x^2 + 7 - 4x) + (4x^2 - 8 - x^3)$$

Adding Polynomials

- Find the sum.
- Write your answer in standard form.

$$(2x^2 + x - 5) + (x + x^2 + 6)$$

Subtracting Polynomials

- Find the difference

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

- Remember, when you subtract, add the opposite
– *(distribute the negative)*

Subtracting Polynomials

- Find the difference

$$(x^2 - 8) - (7x + 4x^2)$$

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

On Your Own...

- Find the sum or difference

$$(-8x^3 + x - 9x^2 + 2) + (8x^2 - 2x + 4) + (4x^2 - 1 - 3x^3)$$

$$(-6x^3 + 5x - 3) - (2x^3 + 4x^2 - 3x + 1)$$

$$(6x^2 - x + 3) + (-2x + x^2 - 7)$$

$$(12x - 8x^2 + 6) - (-8x^2 - 3x + 4)$$