

Name: _____

Date: _____

Learning Goal 5.2

I can add and subtract polynomials.

$$2x^2 - 3x + 5$$

$$+ (-x^2 - 2x + 1)$$

$$2x^2 - x + 5$$

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

Your Turn! Add the following polynomials. Use algebra tiles if you like!

1. $(-x^2 + 2x - 4) + (-2x^2 + 2x - 2)$

2. $(1 + 2x^2 + 5x) + (x^2 + 5x)$

3. $(9x^2 - 4x + x^2 + 5x + 3x - x^2) + (3x + 4 - 2x - 1 + 5x)$

4. $(9 - 4x + x^2 + 3x - 8) + (-5x + 7 - 3x^2 + 7x^2 - 4 + 3x)$

5. $(3x^2 - y^2 + 3z^2 + 4y^2 - 5x^2 + z^2) + (4xy - y^2 - 3x^2 + 2xy - z^2 - 3y^2)$

$$2x^2 - 3x + 5$$

$$-(-x^2 - 2x + 1)$$

$$2x^2 - x + 5$$

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

Your Turn! Add the following polynomials. Use algebra tiles if you like!

1. $(-x^2 + 2x - 4) - (-2x^2 + 2x - 2)$

2. $(1 + 2x^2 + 5x) - (x^2 + 5x)$

3. $(9x^2 - 4x + x^2 + 5x + 3x - x^2) - (3x + 4 - 2x - 1 + 5x)$

4. $(9 - 4x + x^2 + 3x - 8) - (-5x + 7 - 3x^2 + 7x^2 - 4 + 3x)$

5. $(3x^2 - y^2 + 3z^2 + 4y^2 - 5x^2 + z^2) - (4xy - y^2 - 3x^2 + 2xy - z^2 - 3y^2)$

