

Algebra Worksheet

Name _____

Date _____

1. Simplify

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

$$= 6x$$

$$- 2x$$

$$= 4x$$

$$+ 7x$$

$$= 11x$$

$$- 3x$$

$$= 8x$$

$$+ 2x$$

$$= 10x$$

$$- 4x$$

$$= 6x$$

2. Simplify

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

$$= -3x^2 + 7x$$

$$- 2x^2 + 5x - 3x^2 + 6x$$

$$= -7x^2 + 11x$$

$$+ 4x^2 - 8x + 3x^2 - 2x$$

$$= 7x^2 - 10x$$

$$- 5x^2 + 9x - 4x^2 + 7x$$

$$= -2x^2 + 16x$$

$$+ 3x^2 - 11x + 2x^2 - 8x$$

$$= 7x^2 - 19x$$

$$- 6x^2 + 12x - 5x^2 + 10x$$

$$= -4x^2 + 22x$$

3. Simplify

$$x^2 + 2x - 3x^2 + 4x$$

$$= -2x^2 + 6x$$

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

$$= -4x^2 + 11x$$

$$+ 3x^2 - 8x + 2x^2 - 2x$$

$$= 7x^2 - 10x$$

$$- 5x^2 + 9x - 4x^2 + 7x$$

$$= -2x^2 + 16x$$

$$+ 3x^2 - 11x + 2x^2 - 8x$$

$$= 7x^2 - 19x$$

$$- 6x^2 + 12x - 5x^2 + 10x$$

$$= -4x^2 + 22x$$

4. Simplify

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

$$= -3x^2 + 7x$$

$$- 2x^2 + 5x - 3x^2 + 6x$$

$$= -7x^2 + 11x$$

$$+ 4x^2 - 8x + 3x^2 - 2x$$

$$= 7x^2 - 10x$$

$$- 5x^2 + 9x - 4x^2 + 7x$$

$$= -2x^2 + 16x$$

$$+ 3x^2 - 11x + 2x^2 - 8x$$

$$= 7x^2 - 19x$$

$$- 6x^2 + 12x - 5x^2 + 10x$$

$$= -4x^2 + 22x$$

5. Simplify

$$x^2 + 2x - 3x^2 + 4x$$

$$= -2x^2 + 6x$$

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

$$= -4x^2 + 11x$$

$$+ 3x^2 - 8x + 2x^2 - 2x$$

$$= 7x^2 - 10x$$

$$- 5x^2 + 9x - 4x^2 + 7x$$

$$= -2x^2 + 16x$$

$$+ 3x^2 - 11x + 2x^2 - 8x$$

$$= 7x^2 - 19x$$

$$- 6x^2 + 12x - 5x^2 + 10x$$

$$= -4x^2 + 22x$$

