

Chapter 10.1-10.3 Quiz Review

Name: _____

Section 10.1: Adding and Subtracting Polynomials

Find the sum or difference.

1. $(10x^2 - 5x + 7) + (12x^2 + 4x - 1)$

2. $(2x^2 - x + 15) + (-x + 9 - 3x^2)$

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

4. $(-2x^3 + x^2 - x + 9) - (-2x^2 + x - 6)$

5. $(8x^3 + 7x^2 + 2x - 7) - (7x^2 - x - 6)$

6. $(2x^3 - x + 15) + (3x^3 - x - 9)$

Section 10.2: Multiplying Polynomials

Find the product.

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

8. $-3x^3(7x^2 - 6x + 5)$

$$9. (x + 4)(x - 7)$$

$$10. (4x + 3)(2x - 5)$$

$$11. (-x + 3)(4x + 9)$$

$$12. (5x + 4)(3x - 2)$$

Section 10.3: Multiplying Special Polynomials

Find the product.

$$13. (x - 8)(x + 8)$$

$$14. (3x - 6)(3x + 6)$$

$$15. (y + 7)^2$$

$$16. (2y - 9)^2$$

$$17. (2x + 4)^2$$

$$18. (x - 5)^2$$