

# Advanced Algebra

## Midterm Study Guide

### Simplifying Polynomials

1. **Monomials:** A single term consisting of a coefficient and variables with exponents. Examples:  $5x^3$ ,  $2y^2$ .

2. **Binomials:** A polynomial with two terms. Examples:  $x + 3$ ,  $4a^2 - b$ .

### Factoring Polynomials

1. **Common Factor:** Factoring out the greatest common factor (GCF) from all terms. Example:  $6x^2 + 12x = 6x(x + 2)$ .

2. **Grouping:** Factoring by grouping, used for trinomials like  $x^2 + 5x + 6$ .

3. **Difference of Squares:** Factoring a binomial of the form  $a^2 - b^2$  into  $(a + b)(a - b)$ .

4. **Sum and Difference of Cubes:** Factoring binomials of the form  $a^3 + b^3$  and  $a^3 - b^3$  into their respective factor forms.

5. **Trinomials:** Factoring trinomials like  $x^2 + 7x + 12$  into two binomials.

6. **Special Cases:** Factoring perfect squares like  $x^2 - 4$  and  $x^2 + 4x + 4$ .

### Factoring Trinomials "Third Root"

1. **Third Root:** Factoring trinomials where the coefficient of  $x^2$  is not 1, such as  $2x^2 + 7x + 3$ .

2. **Grouping:** Factoring by grouping, used for trinomials like  $2x^2 + 7x + 3$ .

3. **Sum and Difference of Cubes:** Factoring binomials of the form  $a^3 + b^3$  and  $a^3 - b^3$  into their respective factor forms.

4. **Trinomials:** Factoring trinomials like  $2x^2 + 7x + 3$  into two binomials.

5. **Special Cases:** Factoring perfect squares like  $2x^2 - 4$  and  $2x^2 + 4x + 4$ .

6. **Third Root:** Factoring trinomials where the coefficient of  $x^2$  is not 1, such as  $2x^2 + 7x + 3$ .

### Factoring Quadratic Equations "Third Root"

#### Quadratic Equations

1. **Standard Form:**  $ax^2 + bx + c = 0$ . Examples:  $x^2 + 3x + 2 = 0$ ,  $2x^2 - 5x + 3 = 0$ .

2. **Factoring:** Solving quadratic equations by factoring, such as  $x^2 + 3x + 2 = 0$ .

3. **Quadratic Formula:** Solving quadratic equations using the quadratic formula  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ .

4. **Completing the Square:** Solving quadratic equations by completing the square, such as  $x^2 + 6x + 5 = 0$ .

5. **Graphing:** Solving quadratic equations by graphing the parabola and finding the x-intercepts.

6. **Discriminant:** Using the discriminant to determine the nature of the roots of a quadratic equation.

7. **Complex Roots:** Solving quadratic equations with complex roots, such as  $x^2 + 4 = 0$ .

8. **Quadratic Functions:** Graphing quadratic functions and identifying their key features.

9. **Vertex Form:** Writing quadratic functions in vertex form  $y = a(x - h)^2 + k$ .

10. **Standard Form:** Writing quadratic functions in standard form  $y = ax^2 + bx + c$ .

11. **Graphing:** Graphing quadratic functions and identifying their key features.

12. **Vertex Form:** Writing quadratic functions in vertex form  $y = a(x - h)^2 + k$ .

13. **Standard Form:** Writing quadratic functions in standard form  $y = ax^2 + bx + c$ .

# Algebra 2 Midterm Study Guide

**Cathy Duffy**

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