

# 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 from all terms. Example:  $6x^2 + 12x = 6x(x + 2)$ .

2. **Grouping:** Factoring by grouping, often used for trinomials. Example:  $x^2 + 5x + 6 = (x + 2)(x + 3)$ .

3. **Difference of Squares:** Factoring a binomial where both terms are perfect squares. Example:  $x^2 - 9 = (x - 3)(x + 3)$ .

4. **Sum and Difference of Cubes:** Factoring trinomials of the form  $a^3 + b^3$  and  $a^3 - b^3$ . Example:  $x^3 + 8 = (x + 2)(x^2 - 2x + 4)$ .

5. **Quadratic Trinomials:** Factoring trinomials of the form  $ax^2 + bx + c$ . Example:  $x^2 + 7x + 12 = (x + 3)(x + 4)$ .

6. **Perfect Square Trinomials:** Factoring trinomials that are perfect squares. Example:  $x^2 + 6x + 9 = (x + 3)^2$ .

7. **Sum and Difference of Squares:** Factoring trinomials of the form  $a^2 + b^2$  or  $a^2 - b^2$ . Example:  $x^2 - 16 = (x - 4)(x + 4)$ .

### Factoring Trinomials "Third Root"

1. **Third Root:** Factoring trinomials where the coefficient of  $x^2$  is not 1. Example:  $2x^2 + 7x + 3 = (2x + 1)(x + 3)$ .

2. **Grouping:** Factoring by grouping, often used for trinomials with a coefficient of 1. Example:  $x^2 + 5x + 6 = (x + 2)(x + 3)$ .

3. **Difference of Squares:** Factoring a binomial where both terms are perfect squares. Example:  $x^2 - 9 = (x - 3)(x + 3)$ .

4. **Sum and Difference of Cubes:** Factoring trinomials of the form  $a^3 + b^3$  and  $a^3 - b^3$ . Example:  $x^3 + 8 = (x + 2)(x^2 - 2x + 4)$ .

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### Factoring Special Equations "Sheet 1"

#### Quadratic Equations

1. **Quadratic Formula:**  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ . Example:  $x^2 + 5x + 6 = 0$  has solutions  $x = -2$  and  $x = -3$ .

2. **Completing the Square:**  $x^2 + 6x + 9 = (x + 3)^2$ . Example:  $x^2 + 6x + 9 = 0$  has solution  $x = -3$ .

3. **Factoring:**  $x^2 + 5x + 6 = (x + 2)(x + 3)$ . Example:  $x^2 + 5x + 6 = 0$  has solutions  $x = -2$  and  $x = -3$ .

4. **Graphing:**  $y = x^2 + 5x + 6$  is a parabola opening upwards with vertex at  $(-2.5, -0.25)$ . Example:  $x^2 + 5x + 6 = 0$  has solutions  $x = -2$  and  $x = -3$ .

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**Puja Mehta**

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