

# 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:  $x + 3$ ,  $4a^2 - b$ .

### Adding/Subtracting Polynomials (Sheet 1)

#### Operations

1. **Combining Like Terms:** Add or subtract coefficients of terms with the same variables and exponents.

2. **Adding:** Align like terms vertically and add the coefficients.

#### Subtraction

1. **Change to Addition:** Distribute a negative sign to every term in the second polynomial.

2. **Combine Like Terms:** Add the like terms from both polynomials.

### Factoring Trinomials

1. **General Form:**  $x^2 + bx + c$

2. **Factoring:** Find two numbers that multiply to  $c$  and add to  $b$ .

3. **Grouping:** Rewrite the middle term using the two numbers found.

4. **Factor by Grouping:** Factor out the greatest common factor from each group.

### Factoring Trinomials (Sheet 2)

### Factoring Perfect Square Trinomials

1. **General Form:**  $x^2 + 2ax + a^2$

2. **Factoring:**  $(x + a)^2$

3. **General Form:**  $x^2 - 2ax + a^2$

4. **Factoring:**  $(x - a)^2$

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