

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) of all terms.

2. **Grouping:** Factoring by grouping, often used for trinomials.

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 a binomial of the form $a^3 + b^3$ or $a^3 - b^3$ into specific products.

Factoring Trinomials

Factoring Trinomials "Box Method"

1. **Box Method:** A visual method for factoring trinomials of the form $ax^2 + bx + c$ by creating a box and filling it with terms.

2. **Factoring by Grouping:** Factoring by grouping terms in a trinomial.

3. **Factoring Special Cases:** Factoring trinomials that are perfect squares or difference of squares.

Equation Solving Techniques (Box Method)

Equation Solving

1. **Linear Equations:** Equations of the form $ax + b = 0$. Solving for x involves isolating the variable.

2. **Quadratic Equations:** Equations of the form $ax^2 + bx + c = 0$. Solving for x involves factoring, completing the square, or using the quadratic formula.

Systems of Equations

1. **Substitution Method:** Solving one equation for one variable and substituting it into the other equation.

2. **Elimination Method:** Adding or subtracting equations to eliminate a variable.

Graphing Linear Functions

1. **Graphing:** Plotting points and connecting them to form a line.

2. **Equation:** Writing the equation of a line in slope-intercept form ($y = mx + b$).

3. **Graphing Systems:** Graphing two or more lines to find their intersection point.

4. **Graphing Inequalities:** Graphing linear inequalities to find the region that satisfies the inequality.

5. **Graphing Absolute Value Functions:** Graphing functions of the form $y = |x| + b$.

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