

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:** $ax^2 + bx + c$, where $a \neq 1$.

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

3. **Grouping:** $ax^2 + bx + cx + d = (ax^2 + bx) + (cx + d)$

4. **Factored Form:** $(x + p)(x + q)$

Factoring Trinomials (Sheet 2)

1. **General Form:** $ax^2 + bx + c$, where $a = 1$.

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

3. **Grouping:** $x^2 + bx + cx + d = (x^2 + bx) + (cx + d)$

4. **Factored Form:** $(x + p)(x + q)$

Factoring Trinomials (Sheet 3)

1. **General Form:** $ax^2 + bx + c$, where $a \neq 1$.

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

3. **Grouping:** $ax^2 + bx + cx + d = (ax^2 + bx) + (cx + d)$

4. **Factored Form:** $(x + p)(x + q)$

Dividing Monomials (Sheet 1)

Operations

1. **Dividing:** $\frac{a^m}{a^n} = a^{m-n}$

2. **Dividing by a Monomial:** $\frac{a^m}{b^n} = \frac{a^m}{b^n}$

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.

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Tao Wei

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