

Advanced Algebra

Midterm Study Guide

Expanding Polynomials

FOIL

1. **First**: Multiply the first terms in each binomial.

2. **Outer**: Multiply the outer terms in each binomial.

3. **Inner**: Multiply the inner terms in each binomial.

4. **Last**: Multiply the last terms in each binomial.

Example: $(x + 3)(x + 2)$

FOIL: $x^2 + 2x + 3x + 6 = x^2 + 5x + 6$

Factoring Polynomials

Common Factor

1. Find the greatest common factor (GCF) of all terms.

2. Factor out the GCF from each term.

Example: $2x^2 + 4x + 6 = 2(x^2 + 2x + 3)$

Grouping

1. Group terms in pairs.

2. Factor out the GCF from each pair.

3. Factor out the common binomial factor.

Example: $x^2 + 5x + 6 = (x^2 + 2x) + (3x + 6) = x(x + 2) + 3(x + 2) = (x + 2)(x + 3)$

Expanding Polynomials

Binomial Squares

1. $(a + b)^2 = a^2 + 2ab + b^2$

2. $(a - b)^2 = a^2 - 2ab + b^2$

3. $(a + b)(a - b) = a^2 - b^2$

Example: $(x + 3)^2 = x^2 + 6x + 9$

Binomial Squares

Perfect Square Trinomial

1. Check if the first and last terms are perfect squares.

2. Check if the middle term is twice the product of the square roots of the first and last terms.

3. If yes, factor as $(a + b)^2$ or $(a - b)^2$.

Example: $x^2 + 6x + 9 = (x + 3)^2$

Binomial Squares

Perfect Square Trinomial

1. Check if the first and last terms are perfect squares.

2. Check if the middle term is twice the product of the square roots of the first and last terms.

3. If yes, factor as $(a + b)^2$ or $(a - b)^2$.

Example: $x^2 - 6x + 9 = (x - 3)^2$

Binomial Squares

Perfect Square Trinomial

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Example: $x^2 + 10x + 25 = (x + 5)^2$

Binomial Squares

Perfect Square Trinomial

1. Check if the first and last terms are perfect squares.

2. Check if the middle term is twice the product of the square roots of the first and last terms.

3. If yes, factor as $(a + b)^2$ or $(a - b)^2$.

Example: $x^2 - 8x + 16 = (x - 4)^2$

Algebra 2 Midterm Study Guide

AW Rasmussen



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