

# 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 factor pairs.

### 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.

#### Factoring Trinomials "Diamond Method"

1. **Diamond Method:** A visual method for factoring trinomials of the form  $ax^2 + bx + c$  by creating a diamond shape.

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

### Factoring Special Polynomials (Box Method)

#### Factoring Special Polynomials

1. **Perfect Square Trinomials:** Factoring a trinomial that is a perfect square, such as  $x^2 + 6x + 9$ .

2. **Sum and Difference of Cubes:** Factoring a binomial of the form  $a^3 + b^3$  or  $a^3 - b^3$ .

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