

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 from all terms. Example: $6x^2 + 12x = 6x(x + 2)$.

2. **Grouping:** Factoring by grouping, used for trinomials. Example: $x^2 + 5x + 6 = (x + 2)(x + 3)$.

3. **Difference of Squares:** Factoring a binomial where both terms are perfect squares. Example: $x^2 - 9 = (x - 3)(x + 3)$.

4. **Sum and Difference of Cubes:** Factoring trinomials of the form $a^3 + b^3$ and $a^3 - b^3$. Example: $x^3 + 8 = (x + 2)(x^2 - 2x + 4)$.

5. **Quadratic Trinomials:** Factoring trinomials of the form $ax^2 + bx + c$. Example: $x^2 + 7x + 12 = (x + 3)(x + 4)$.

6. **Perfect Square Trinomials:** Factoring trinomials that are perfect squares. Example: $x^2 + 6x + 9 = (x + 3)^2$.

7. **Sum and Difference of Squares:** Factoring trinomials of the form $a^2 + b^2$ or $a^2 - b^2$. Example: $x^2 - 16 = (x - 4)(x + 4)$.

Factoring Trinomials "Third Root"

1. **Third Root:** Factoring trinomials where the coefficient of x^2 is not 1. Example: $2x^2 + 7x + 3 = (2x + 1)(x + 3)$.

2. **Grouping:** Factoring by grouping, used for trinomials. Example: $x^2 + 5x + 6 = (x + 2)(x + 3)$.

3. **Difference of Squares:** Factoring a binomial where both terms are perfect squares. Example: $x^2 - 9 = (x - 3)(x + 3)$.

4. **Sum and Difference of Cubes:** Factoring trinomials of the form $a^3 + b^3$ and $a^3 - b^3$. Example: $x^3 + 8 = (x + 2)(x^2 - 2x + 4)$.

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Factoring Special Equations "Sheet 1"

Quadratic Equations

1. **Quadratic Formula:** $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$. Example: $x^2 + 5x + 6 = 0$ has solutions $x = -2$ and $x = -3$.

2. **Completing the Square:** $x^2 + 6x + 9 = (x + 3)^2$. Example: $x^2 + 6x + 9 = 0$ has solution $x = -3$.

3. **Factoring:** $x^2 + 7x + 12 = (x + 3)(x + 4)$. Example: $x^2 + 7x + 12 = 0$ has solutions $x = -3$ and $x = -4$.

4. **Graphing:** $y = x^2 + 6x + 9$ is a parabola opening upwards with vertex at $(-3, 0)$. Example: $y = x^2 + 6x + 9$ has a minimum value of 0 at $x = -3$.

Factoring Special Equations "Sheet 2"

1. **Quadratic Formula:** $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$. Example: $x^2 + 5x + 6 = 0$ has solutions $x = -2$ and $x = -3$.

2. **Completing the Square:** $x^2 + 6x + 9 = (x + 3)^2$. Example: $x^2 + 6x + 9 = 0$ has solution $x = -3$.

3. **Factoring:** $x^2 + 7x + 12 = (x + 3)(x + 4)$. Example: $x^2 + 7x + 12 = 0$ has solutions $x = -3$ and $x = -4$.

4. **Graphing:** $y = x^2 + 6x + 9$ is a parabola opening upwards with vertex at $(-3, 0)$. Example: $y = x^2 + 6x + 9$ has a minimum value of 0 at $x = -3$.

5. **Sum and Difference of Cubes:** $x^3 + 8 = (x + 2)(x^2 - 2x + 4)$. Example: $x^3 + 8 = 0$ has solution $x = -2$.

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the term bioavailability refers to the a relationship between the physical and chemical properties of a drug and the systemic absorption of the drug b measurement of the rate and amount of therapeutically active drug that reaches the systemic circulation c

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question 9 which of the following statements about iodine is correct a 50 of adults consume iodine at levels below the rni b dairy products are a poor source of iodine c the iodine content of organic milk is generally lower than the level in non organic milk d uk dietary reference values recommend an increase in iodine intake in

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a bioavailability describes the proportion of the drug administered that is metabolised very quickly and thus is not available to induce a physiological effect b bioavailability describes the ability of the administered drug metabolites to cause undesirable physiological effects

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