

Advanced Algebra

Midterm Study Guide

Simplifying Polynomials

1. Addition

$(3x^2 + 5x - 2) + (2x^2 - 3x + 7)$

$= 3x^2 + 5x - 2 + 2x^2 - 3x + 7$

$= (3x^2 + 2x^2) + (5x - 3x) + (-2 + 7)$

$= 5x^2 + 2x + 5$

2. Subtraction

$(3x^2 + 5x - 2) - (2x^2 - 3x + 7)$

$= 3x^2 + 5x - 2 - 2x^2 + 3x - 7$

$= (3x^2 - 2x^2) + (5x + 3x) + (-2 - 7)$

$= x^2 + 8x - 9$

Solving Quadratic Equations

1. Factoring

$x^2 - 5x + 6 = 0$

$(x - 2)(x - 3) = 0$

$x - 2 = 0 \Rightarrow x = 2$

$x - 3 = 0 \Rightarrow x = 3$

2. Quadratic Formula

$ax^2 + bx + c = 0$

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Example: $x^2 - 5x + 6 = 0$

$a = 1, b = -5, c = 6$

$x = \frac{-(-5) \pm \sqrt{(-5)^2 - 4(1)(6)}}{2(1)}$

$x = \frac{5 \pm \sqrt{25 - 24}}{2}$

$x = \frac{5 \pm 1}{2}$

$x = \frac{5 + 1}{2} = 3$ or $x = \frac{5 - 1}{2} = 2$

Simplifying Radicals

1. Simplifying

$\sqrt{48}$

$= \sqrt{16 \cdot 3}$

$= 4\sqrt{3}$

2. Adding

$3\sqrt{2} + 5\sqrt{2}$

$= (3 + 5)\sqrt{2}$

$= 8\sqrt{2}$

3. Subtracting

$7\sqrt{5} - 2\sqrt{5}$

$= (7 - 2)\sqrt{5}$

$= 5\sqrt{5}$

Rationalizing Denominators

1. Single Radical

$\frac{1}{\sqrt{2}}$

$= \frac{1 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}}$

$= \frac{\sqrt{2}}{2}$

2. Conjugate Pairs

$\frac{1}{\sqrt{3} + \sqrt{2}}$

$= \frac{1 \cdot (\sqrt{3} - \sqrt{2})}{(\sqrt{3} + \sqrt{2})(\sqrt{3} - \sqrt{2})}$

$= \frac{\sqrt{3} - \sqrt{2}}{3 - 2}$

$= \sqrt{3} - \sqrt{2}$

Solving Systems of Equations

1. Substitution

$y = 2x + 3$

$x + y = 5$

$x + (2x + 3) = 5$

$3x + 3 = 5$

$3x = 2$

$x = \frac{2}{3}$

$y = 2(\frac{2}{3}) + 3 = \frac{4}{3} + 3 = \frac{13}{3}$

2. Elimination

$2x + 3y = 7$

$x + y = 5$

$(2x + 3y = 7) - (x + y = 5)$

$x + 2y = 2$

$x = 2 - 2y$

$(2(2 - 2y) + 3y = 7)$

$4 - 4y + 3y = 7$

$4 - y = 7$

$-y = 3$

$y = -3$

$x = 2 - 2(-3) = 2 + 6 = 8$

Graphing Linear Equations

1. Slope-Intercept Form

$y = mx + b$

m : slope

b : y-intercept

Example: $y = 2x + 3$

$m = 2, b = 3$

2. Point-Slope Form

$y - y_1 = m(x - x_1)$

Example: Line passing through $(1, 2)$ with slope $m = 3$

$y - 2 = 3(x - 1)$

$y - 2 = 3x - 3$

$y = 3x - 1$

Graphing Quadratic Equations

1. Vertex Form

$y = a(x - h)^2 + k$

(h, k) : vertex

Example: $y = x^2 - 4x + 4$

$y = (x - 2)^2 + 0$

Vertex: $(2, 0)$

2. Standard Form

$y = ax^2 + bx + c$

Example: $y = x^2 - 4x + 4$

$a = 1, b = -4, c = 4$

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$x = \frac{4 \pm \sqrt{16 - 16}}{2}$

$x = \frac{4 \pm 0}{2} = 2$

$y = (2)^2 - 4(2) + 4 = 4 - 8 + 4 = 0$

Algebra 2 Midterm Study Guide

Carrie Seim



Algebra 2 Midterm Study Guide:

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