

ALGEBRA I END OF COURSE STUDY GUIDE

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Slope $y = mx + b$
m is the slope
b is the y-axis intercept

Find Slope given a table:



Find Slope given a graph:



Linear Functions:

Possible representations

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Quadratics: Parabolic function $y = ax^2 + bx + c$



Exponent Basics: $x^a \cdot x^b = x^{a+b}$, $x^a \div x^b = x^{a-b}$, $x^a \cdot x^b = x^{a \cdot b}$

Add Exponents & multiply numbers

$$x \cdot x = x^2, x^2 \cdot x^2 = x^4, 3x \cdot 2x^2 = 6x^3$$

$$x^2 \cdot x^2 = x^4, 3x^2 \cdot 2x^2 = 6x^4, 3x^2 \cdot 2x^3 = 6x^5$$

$$4x^2 \cdot 3x^3 = 12x^5, 3x^2 \cdot 4x^3 = 12x^5, 3x^2 \cdot 4x^4 = 12x^6$$

Subtract Exponents & Divide numbers

$$\frac{x^5}{x^2} = x^{5-2} = x^3, \frac{27x^3y^2}{3x^2y^2} = 9x$$

$$\frac{(-6x^2y^3)(2x^2y^3)}{-18x^2y^3} = \frac{-12x^4y^6}{-18x^2y^3} = \frac{2x^2y^3}{3}$$

Solve for 'y'

$$3x + 4y = 24$$

$$4y = -3x + 24$$

$$\frac{4y}{4} = \frac{-3x + 24}{4}$$

$$y = -\frac{3}{4}x + 6$$

$$y = -\frac{3}{4}x + 6$$

Distributive property

$$4(x + 3) = 4x + 12$$

$$-3x(7x - 4) + 6x = (-21x^2 + 12x) + 6x = -21x^2 + 18x$$

$$\frac{2}{5}(15ab^2 - 40ab^2) - \frac{2}{3}(32ab^2 - 6ab^2) = 6ab^2 - 24ab^2 - 22ab^2 + 4ab^2 = -36ab^2$$

Combine Like Terms
 Same Variables with the Same Exponents

Find the slope of the line passing through $(-2, 3)$ and $(4, -1)$

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-1 - 3}{4 - (-2)} = \frac{-4}{6} = -\frac{2}{3}$



Transformations of Quadratic Functions

Vertical Shift

Replacing x^2 with $x^2 + c$ results in shift of c units up.

Replacing x^2 with $x^2 - c$ results in shift of c units down.



Horizontal Compression

Changing x^2 to $(\frac{1}{2}x)^2$ compresses the parabola horizontally.

Result is a narrower parabola.



Horizontal Stretch

Changing x^2 to $(2x)^2$ stretches the parabola horizontally.

Result is a wider parabola.



Algebra Study Guide For Finals

Nathaniel Max Rock



Algebra Study Guide For Finals:

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Community College Mathematics Brian Cafarella, 2022-06-29 This book explores the rich history of community college math with a specific focus on gatekeeper math classes Gatekeeper math classes include courses such as college algebra introduction to statistics and all developmental math classes For community colleges successful completion of these classes is imperative for student retention This book presents a decade by decade analysis of the history of community college mathematics The author employs a mix of conceptual empirical and quantitative research The empirical research stems from interviews with 30 community college faculty members from seven community colleges From the 1970s to the pandemic in the early 2020s the

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Algebra Facts Theodore John Szymanski,1993 Provides easy access to the most crucial concepts and formulas in basic algebra **7th Grade Math Is Easy! So Easy** Nathaniel Max Rock,2006-02 Rock offers a guide to what it takes to master seventh grade math Education **Crisis in Science and Math Education** United States. Congress. Senate. Committee on Governmental Affairs,1990

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