

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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Represented 1/2 cup half price on a combination	Cost of ingredients
One person gives 10 minutes, 10 hours	Cost of time
Earns 2.0% commission on sales	Commission

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



Exponent Basics: $x^a \cdot x^b = x^{a+b}$, $x^a \div x^b = x^{a-b}$, $x^0 = 1$

Add Exponents & multiply numbers

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

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

Subtract Exponents & Divide numbers

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

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

Distributive property

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

$$\begin{aligned} -3x(7x - 4) + 6x - (3x - 2x^2) \\ = -21x^2 + 12x + 6x - 3x + 2x^2 \\ = -19x^2 + 15x + 6x - 3x \\ = -19x^2 + 18x - 3 \end{aligned}$$

$$\begin{aligned} \frac{2}{5}(15ab - 40ab^2) - \frac{2}{3}(32ab^2 - 6a^2b) \\ 9ab - 16ab^2 - \frac{64}{3}ab^2 + 4a^2b \\ 9ab - 24ab^2 \end{aligned}$$

Combine Like Terms
 Same Variables with the Same Exponents

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

x	y
1	2
3	4

$$\frac{\Delta y}{\Delta x} = \frac{4-2}{3-1} = \frac{2}{2} = 1$$



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, making it narrower.



Horizontal Stretch

Changing x^2 to $(2x)^2$ stretches the parabola horizontally, making it wider.



Algebra Test Study Guide

Reza Nazari



Algebra Test Study Guide:

Algebra Test Study Guide Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Algebra Test Study Guide**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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