

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

Add Exponents & multiply numbers

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

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

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

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'

$$3x + 4y = 24$$

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

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

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

Steps:

- Add positive or negative to opposite side of y .
- Cancel out terms that bring down carefully.
- Divide by the number in front of y .
- Rewrite.

Distributive property

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

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

$$\frac{2}{5}(15ab^2 - 40ab^2) - \frac{2}{3}(32ab^2 - 8a^2b)$$

$$6ab^2 - 16ab^2 - \frac{64}{3}ab^2 + \frac{16}{3}a^2b$$

$$-10ab^2 + \frac{16}{3}a^2b$$

Combine Like Terms
 Same Variables with the Same Exponents

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

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

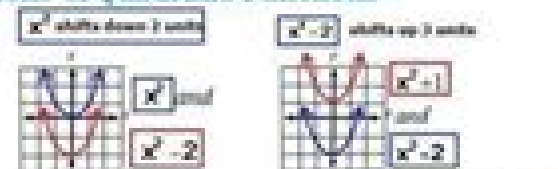


Transformations of Quadratic Functions

Vertical Shift

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

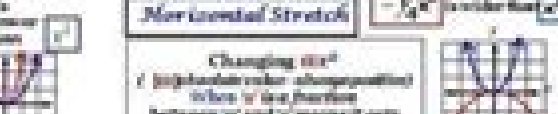
Replacing x^2 with $x^2 - c$ results in shift of c units down.



Horizontal Compression

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

Result is a 'wider' parabola.



Algebra Readiness Test Study Guide

Reza Nazari



Algebra Readiness Test Study Guide:

Algebra Readiness 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 been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Algebra Readiness Test Study Guide**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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