

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

$$x \cdot x = x^2$$

$$x^2 \cdot x^2 = 2x \cdot 2x = 4x^2$$

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

$$x^2 \cdot x^2 = x^2 \cdot x^2 = x^4$$

$$(2 \text{ abcd})^2 = 2^2 \cdot a^2 \cdot b^2 \cdot c^2 \cdot d^2 = 4a^2b^2c^2d^2$$

$$4 \cdot x^2 \cdot y^3 = 4x^2 \cdot y^3$$

$$(3x^2y^3)(4xy^2) = 12x^3y^5$$

Subtract Exponents & Divide numbers

$$\frac{x^5}{x^2} = x^{5-2} = x^3$$

$$\frac{27x^3y^5}{3x^2y^2} = \frac{9x^1y^3}{1} = 9xy^3$$

$$\frac{(-6a^2b^3)(2a^2b^3)}{-18a^2b^3c} = \frac{-12a^4b^6}{-18a^2b^3c} = \frac{2a^2b^3}{3c}$$

Distributive property

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

$$-3a(7x - 4) + 6x - (3) = -21ax + 12x - 13 + 6x - 3$$

$$-21ax^2 + 12x^2 + 6x - 13$$

$$3x^2 + 15x - 13$$

$$\frac{2}{5}(15ab - 40ab^2) - \frac{2}{3}(32ab^2 - 6ab^3)$$

$$6ab - 16ab^2 - \frac{64}{3}ab^2 + 4ab^3$$

$$6ab - 24ab^2$$

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

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



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 Keystone Study Guide

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Algebra Keystone Study Guide:

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