

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

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

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

$$x^3 \cdot x^2 = x^5$$

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

$$x^5 \cdot x^2 = x^7$$

$$x^6 \cdot x^2 = x^8$$

$$x^7 \cdot x^2 = x^9$$

$$x^8 \cdot x^2 = x^{10}$$

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$$x^{98} \cdot x^2 = x^{100}$$

Subtract Exponents & Divide numbers

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

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

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

Distributive property

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

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

$$-21x^2 + 12x + 6x = -21x^2 + 18x$$

$$3x^2 + 18x - 12$$

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

$$10ab^2 - 4ab^2 - 2ab^2 + 4ab^2$$

$$8ab^2$$

Combine Like Terms
 Same Variables with the Same Exponents

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

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

Equation of the line: $y - 2 = \frac{1}{2}(x + 1)$

$y - 2 = \frac{1}{2}x + \frac{1}{2}$

$y = \frac{1}{2}x + \frac{5}{2}$



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 to half its original width.

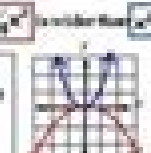
NARROWER



Horizontal Stretch

Changing x^2 to $(2x)^2$ stretches the parabola horizontally to twice its original width.

WIDER



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**Duanli Yan, Alina A. von Davier, David J.
Weiss**

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