

ALGEBRA I End of Course STUDY GUIDE

Slope:

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

Find Slope given a table:

x	y
0	-4
2	-8
-1	0

(the change in "y" over the change in "x")

$$\frac{\Delta y}{\Delta x} = \frac{-8}{-3} = \frac{8}{3}$$

x	y
2	4
10	16

Find the slope given two points
 (2, 4), (10, 16)

$$\frac{\Delta y}{\Delta x} = \frac{12}{8} = \frac{3}{2}$$

Find Slope given a graph:

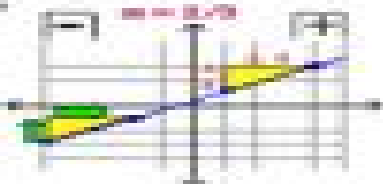
Method 1:

1. Choose any two points.
2. Create table with points.
3. Find Δy and Δx .

Method 2:

Slope
 rise
 run

$$= \frac{3}{2}$$



Independent:

x

Dependent:

$f(x)$

Domain

$$2x - 4$$

Range

$y \geq 0$

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Range

$y \geq 0$

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

Set

$$y = 2x - 4$$

$$y \geq 0$$

$$y = 2x - 4$$

$$y \geq 0$$

$$y = 2x - 4$$

$$y \geq 0$$

$$y = 2x - 4$$

$$y \geq 0$$

$$y = 2x - 4$$

$$y \geq 0$$

$$y = 2x - 4$$

$$y \geq 0$$

$$y = 2x - 4$$

$$y \geq 0$$

$$y = 2x - 4$$

$$y \geq 0$$

Slope:

1. Add a positive or negative "y" Opposite sign of x.
2. Cancel same pairs above/below carefully.
3. Divide by the number in front of y.
4. Simplify.

Solve for "y"

$$3x + 4y = 12$$

$$-3x$$

$$4y = -3x + 12$$

$$4y = -3x + 12$$

$$-4$$

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

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

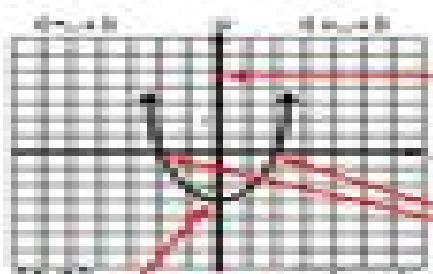
$$y = -\frac{3}{4}x + 3$$

Linear Functions:

Possible representations

Save \$50 each week	per
Silly starting each day \$100	per
Changed \$100 \$1000	per
Earned \$100 \$100	per
Converted each \$100 \$100	per
Step one \$100, pay half price on second shirt	per
One person \$100 a minute, 10 hours	per
Earned \$100 \$1000	per

Quadratics: Parent function $y = x^2$



Line of Symmetry:
 y -axis (solid line)

Find x-intercepts, vertex, solutions, where $y = 0$ (x)

at end of graph, find

Vertex (0, 0)
 Maximum or Minimum point
 Axis: Minimum/Maximum, approach

$$x^2 = 16 \Rightarrow x = \pm 4$$

Exponent Basics

$$x^a \cdot x^b = x^{a+b}$$

$$x^a \div x^b = x^{a-b}$$

$$x^a \cdot x^b = x^{a+b}$$

Add Exponents & multiply numbers

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

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

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

$$x^2 \cdot x^3 = x^5 \quad (3 \cdot 4x^2)^2 = 3^2 \cdot 4^2 \cdot x^4 = 144x^4$$

$$x^2 \cdot x^3 = x^5 \quad (3 \cdot 4x^2)^2 = 3^2 \cdot 4^2 \cdot x^4 = 144x^4$$

Subtract Exponents & divide numbers

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

$$\frac{27x^3y^4}{3x^2y^2} = 9xy^2$$

$$\frac{(-6x^3y^2)(2x^2y^3)}{-18x^3y^2} = \frac{-12x^5y^5}{-18x^3y^2} = \frac{2x^2y^3}{3}$$

Algebra Eoc Texas Study Guide

Camilla Rothe



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