

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
 (x₁, y₁) (x₂, y₂)

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

Find Slope given a graph:

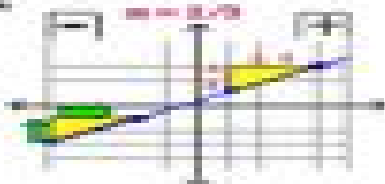
Method 1:

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

Method 2:

$\frac{\text{Rise}}{\text{Run}}$

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



Independent:

x

Dependent:

$f(x)$

Domain:

$2x - 4$

$8x$

$3x^2$

Range:

$y \leq 0$

$\sqrt{}$

Δx

$$\begin{aligned} 2x - 4 &= 0 \\ 2x &= 4 \\ x &= 2 \end{aligned}$$

Number of hours

Total cost \$1

Number of hours worked

Amount of money that earned

Solve for "y"

$$3x + 4y = 24$$

$$-3x \quad -3x$$

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

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

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

Steps:

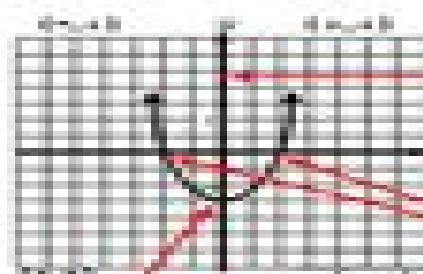
1. Add a positive or negative "x" Opposite sign of x.
2. Cancel same pairs (lines being done carefully).
3. Divide by the number in front of y.
4. Done!

Linear Functions:

Possible representations

Save \$50 each week	→ per
Silly starting each day, eg. $2x^2$ min	→ per
Changed \$5.00 $2x^2$ minutes	→ per
Earns \$50, eg. $2x^2$ hours	→ per
Converted each day, plus \$50 a day	→ per + per
Step one then, pay half price on second shirt	→ $x + 10x$
One person $2x^2$ a minute, x = hours	→ per
Earns $2x^2$ commission on sales	→ x, per

Quadratics: Parent function $y = x^2$



Line of Symmetry: y -axis (solid line)

Find x-intercepts, vertex, solutions, where $y = 0$ ($x^2 = 0$)

-2 and 2
 (roots, base)

Vertex $(0, 0)$
 Maximum or Minimum point
 Area: Minimum-Laplace approach

$$\begin{aligned} x^2 + 3x + 4 &= 0 \\ 3x + 4 &= -x^2 \\ x &= \frac{-3 \pm \sqrt{9 - 16}}{2} \end{aligned}$$

Exponent Basics

$$x = x^1$$

$$x^0 = \frac{x}{x} = 1$$

$$x^2 = x$$

Add Exponents & multiply numbers

$$x^1 \cdot x^1 = x^2$$

$$3^1 \cdot 3^1 = 3 \cdot 3 = 9$$

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

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

$$x^2 + x^2 = 2x^2 \quad 3x^2 + 4x^2 = 7x^2$$

Subtract Exponents & divide numbers

$$\frac{x^2}{x^1} = x^{2-1} = x^1$$

$$\frac{3x^2 \cdot y^2}{3x^2 \cdot y^2} = \frac{3y^2}{3} = y^2$$

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

Algebra Honors Study Guide

D Keegan



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