

# 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")

$$\frac{\Delta y}{\Delta x} = \frac{-8}{2} = -\frac{4}{1}$$

x	y
2	4
0	0

Find the slope given two points  
 (x<sub>1</sub>, y<sub>1</sub>) (x<sub>2</sub>, y<sub>2</sub>)

$$\frac{\Delta y}{\Delta x} = \frac{4}{2} = 2$$

Find Slope given a graph:

Method 1:

1. Choose any two points.
2. Create table with points.
3. Find  $\Delta y$  and  $\Delta x$ .

Method 2:



Independent:

x

Domain

$2x - 4$

$8x$

$3x^2$

Number of hours

Number of hours worked

Dependent:

$f(x)$

Range

$y = 0$

$y = 0$

$y = 0$

Total cost \$1

Amount of money that earned

$$y = 0.05x = 0$$

$$y = 0.05x = 0$$

$$y = 0.05x = 0$$

Solve for "y"

$$3x + 4y = 24$$

$$-3x$$

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

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

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

Steps:

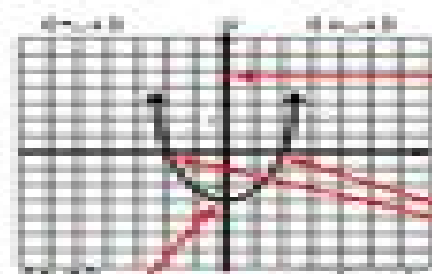
1. Add a positive or negative "y" Opposite sign of x.
2. Cancel same pairs (lines being done carefully).
3. Divide by the number in front of y.
4. Done!

Linear Functions:

Possible representations

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

Quadratics: Parent function  $y = x^2$



Line of Symmetry: y-axis (solid line)

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

at end of graph, end

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

$$x^2 = 0 \Rightarrow x = 0$$

$$x = 0 \Rightarrow x = 0$$

$$x = 0 \Rightarrow x = 0$$

Exponent Basics

$$x = x^1$$

$$x^0 = 1$$

$$x^1 = x$$

Add Exponents & multiply numbers

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

$$2^3 \cdot 2^3 = 8 \cdot 8 = 64$$

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

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

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

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

$$3x^2 \cdot 4x^2 = 12x^4$$

Subtract Exponents & divide numbers

$$\frac{x^3}{x^1} = x^{3-1} = x^2$$

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

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

# Eoc Algebra Study Guide

**RM Cervero**



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