

# 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  
 (x<sub>1</sub>, y<sub>1</sub>) (x<sub>2</sub>, y<sub>2</sub>)

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

Find Slope given a graph:

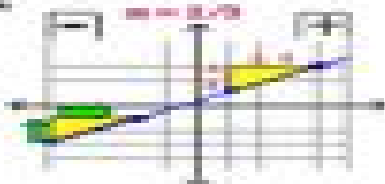
Method 1:

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

Method 2:

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

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



Independent:

x

Dependent:

$f(x)$

Domain:

$2x - 4$

Range:

$y \geq 0$

RE:

$\sqrt{\quad}$

$3x^2$

$\Delta x$

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

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:

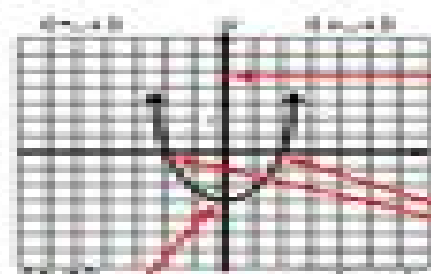
1. Add a positive or negative "x"
2. Cancel same pairs (lines being done carefully)
3. Divide by the number in front of y.
4. Done!

Linear Functions:

Possible representations

Save \$50 each week	✓	power
Silly starting each day, eg. $2^{100}$ mm	✓	exponential
Charged \$5.00 $2^{100}$ minutes	✓	exponential
Earns \$50, eg. \$5000	✓	linear
Converted each day, eg. 100 day	✓	linear
Step function, pay half price on second shirt	✓	piecewise
One person $2^{100}$ a minute, x = hours	✓	exponential
Earns $2.5\%$ compounded on sales	✓	exponential

Quadratics: Parent function  $y = x^2$



Line of Symmetry:  $y$ -axis (solid line)

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

at end of graph, find

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

$$\begin{aligned} x^2 + 3x - 40 &= 0 \\ 0 &= 3x - 40 \\ \text{substitute } 3x &= 40 \end{aligned}$$

Exponent Basics

$$x = x^1$$

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

$$x^2 = x$$

Add Exponents & multiply numbers

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

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

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

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

$$x^2 \cdot x^2 \cdot x^2 = x^6 \quad 3x^2 \cdot 4x^2 \cdot 5x^2 = 60x^6$$

Subtract Exponents & divide numbers

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

$$\frac{3x^3 \cdot y^4}{3x^2 \cdot y^2} = \frac{3y^2}{1} = 3y^2$$

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

# Algebra Honors Study Guide

**JA Banks**



## **Algebra Honors Study Guide:**

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