

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:

$2x - 4$

Range:

$y \geq 0$

$8x$

$\sqrt{\quad}$

$3x^2$

Δx

Number of hours

Total cost \$

Number of hours worked

Amount of money \$ earned

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

Solve for "y"

$$3x + 4y = 24$$

$$-3x$$

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

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

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

Steps:

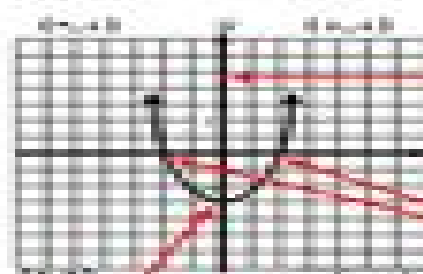
1. Add a positive or negative "y" Opposite sign of x.
2. Cancel same pairs (lines being done carefully).
3. Divide by the number in front of y.
4. Done!

Linear Functions:

Possible representations

Save \$50 each week	→ gas
Silly starting each day \$100 each	→ sugar
Changed \$100 \$1000000	→ money
Learn \$10, \$100, \$1000	→ length
Current each day plus \$100 \$1 day	→ age + age
Step one then pay half price on second shirt	→ x + 10x
One person \$1000 a minute, x = hours	→ age
Learn \$1.00 each day on sales	→ x, age

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

$$\begin{aligned} x^2 + 3x + 4 &= 0 \\ 3x + 4 &= -x^2 \\ x &= -2, -4 \end{aligned}$$

Exponent Basics

$$x = x^1$$

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

$$x^1 = x$$

Add Exponents & multiply numbers

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

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

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

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

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

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

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

$$(-6x^2)(2x^2) = -12x^4$$

$$-12x^4 \cdot 2x^2 = -24x^6$$

$$-24x^6 \cdot 2x^2 = -48x^8$$

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