

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)

$$\frac{\Delta y}{\Delta x} = \frac{16}{8} = 2$$

Find Slope given a graph:

Method 1:

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

Method 2:

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

$$= \frac{20}{10}$$



Independent:

x

Dependent:

$f(x)$

Domain:

$2x - 4$

$8x$

$3x^2$

Range:

$y = 6$

$\sqrt{5}$

Δx

$x = 100, y = 4$
 $x = 100, y = 100$
 $\Delta x = 100$

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:

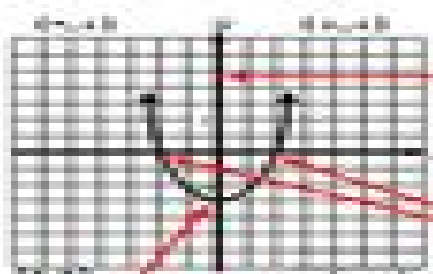
1. Add a positive or negative "y" Opposite sign of x.
2. Cancel same pairs (this being done carefully).
3. Divide by the number in front of y.
4. Done!

Linear Functions:

Possible representations

Save \$50 each week	→ per
Silly starting each day, eg. $2x^2$ min	→ per
Charged \$1.00 every minute	→ every
Earns \$10, eg. \$10 hour	→ \$10/h
Converted each day, plus \$10 a day	→ per + per
Step-constant, pay half price on second shirt	→ $x = 10x$
One person $2x^2$ a minute, x = hours	→ per
Earns $2.5x$ commission on sales	→ x range

Quadratics: Parent function $y = x^2$



Line of Symmetry: y -axis (solid line)

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

-2 and 2
 (x's, x's)

Vertex (0, 0)
 Maximum or Minimum point
 Axis: Minimum (opens upwards)

$$x^2 + 3x + 4 = 0$$

$$0 = 3x + 4$$

$$\text{substitute into}$$

$$1 - 2 = 4$$

Exponent Basics

$$x = x^1$$

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

$$x^2 = x$$

Add Exponents & multiply numbers

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

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

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

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

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

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 Eoc Study Guide Answer Key

United States Armed Forces Institute

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