

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:

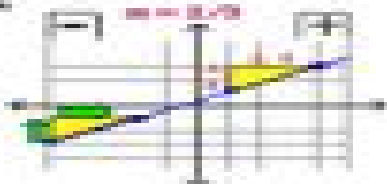
Method 1:

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:

$2x - 4$

Range:

$y \geq 0$

$8x$

$\sqrt{\quad}$

$3x^2$

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:

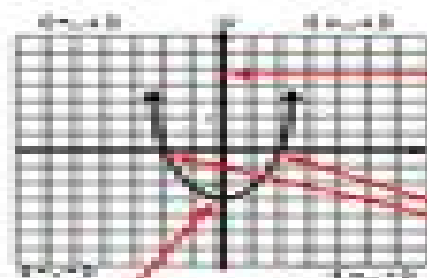
1. Add a positive or negative "x" Opposite sign of x.
2. Cancel same pairs (lines being done carefully).
3. Divide by the number in front of y.
4. Done!

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 $y = 0$ ($x^2 = 0$)

$x = 0$ and $x = 0$
 (0, 0), (0, 0)

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

$$\begin{aligned} x^2 + 3x + 4 &= 0 \\ 3x + 4 &= -x^2 \\ \text{substitute into} \\ 3(-2) + 4 &= 0 \end{aligned}$$

Exponent Basics

$$x = x^1$$

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

$$x^2 = x$$

Add Exponents & multiply numbers

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

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

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

$$x^2 \cdot x^2 = x^2 + x^2 = x^4 \quad (3 \cdot 4x^2)^2 = 3^2 \cdot 4^2 \cdot x^2 + 2 \cdot 3 \cdot 4 \cdot x^2 = 9 \cdot 16 \cdot x^2 + 2 \cdot 3 \cdot 4 \cdot x^2 = 144x^2 + 24x^2 = 168x^2$$

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

Subtract Exponents & divide numbers

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

$$\frac{3 \cdot 2x^2 \cdot y^2}{3x^2 \cdot y^2} = \frac{6y^2}{6} = y^2$$

$$\frac{(-6x^2 \cdot y^2)(2x^2 \cdot y^2)}{-18x^2 \cdot y^2 \cdot 2} = \frac{-12x^4 \cdot y^4}{-36x^2 \cdot y^2} = \frac{1}{3}x^2 \cdot y^2$$

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A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the United States Air Force Academy text.

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