

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"

$$\frac{\Delta y}{\Delta x} = \frac{0 - (-4)}{-1 - 0} = -\frac{4}{1} = -4$$

Find the slope given two points: Calc. No Calc. (40)

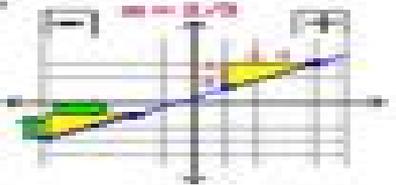
x	y
2	4
4	8

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

Find Slope given a graph:

- Method 1:
- Choose any two points.
 - Create table with points.
 - Find Δy and Δx .

Method 2:



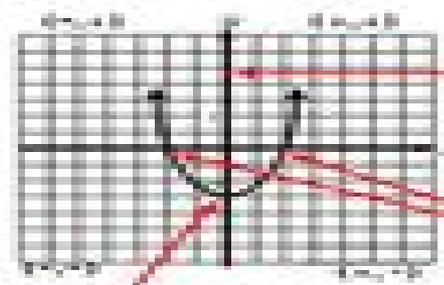
$$\text{Slope} = \frac{\text{rise}}{\text{run}} = \frac{3}{2}$$

Linear Functions:

Possible representations:

Have two points work	→ graph
Start with one point and slope	→ graph
Change three variables	→ table
Have two points	→ graph
Constant rate of change two days	→ $y = mx + b$
Represent pay for part-time or seasonal work	→ $m = 10$
Use percent change a minute , hour	→ $y =$
Have two variables on table	→ $m =$

Quadratics: Parent function $y = x^2$



Line of Symmetry: y-axis (bold line)

Find a -**intercepts** (roots, zeros, solutions, where $y = 0 = x^2$)
 -1 and +1
 -1 and +1
 -1 and +1

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

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

$$0 = 2x^2 - 4x$$

$$0 = 2x(x - 2)$$

Independent: x	Dependent: $f(x)$
Domain: \mathbb{R}	Range: $y \geq 0$
$2x - 4$	$2x^2 - 4x$
$3x^2$	$3x^2$
Number of lines	Total cost \$
Number of hours worked	Amount of money \$

Solve for "y"

$$3x = 4y + 12$$

$$-4y = -3x + 12$$

$$4y = 3x - 12$$

$$\frac{4y}{4} = \frac{3x - 12}{4}$$

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

- Steps:
- Add a positive or negative "a" Opposite sign of "a"
 - Cancel zero pair (lines being done carefully)
 - Divide by the number in front of "y"
 - Done!

Exponent Basics: $x^2 = x^2$, $x^3 = \frac{x^3}{1}$, $x^2 = 1$

Add Exponents & multiply numbers:

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

$$3^2 \cdot 3^2 = 9 \cdot 9 = 81$$

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

$$x^2 \cdot x^2 = x^2 + x^2 = 2x^2$$

$$(3ab^2)^2 = 3^2 a^2 b^4 = 9a^2 b^4$$

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

$$3m^2 n^2 \cdot 4m^2 n^2 = 12m^4 n^4$$

Subtract Exponents & divide numbers:

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

$$\frac{27x^3 y^6}{3x^2 y^2} = \frac{9x^1 y^4}{1} = 9x y^4$$

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

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DP Hallahan



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