

ALGEBRA I END OF COURSE STUDY GUIDE

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Slope: $y = mx + b$
 m is the slope
 b is the y -axis intercept

Find Slope given a table:

x	y	$\frac{\Delta y}{\Delta x}$	the change in y /the change in x
1	5	-5	-5
2	4	-1	-1
3	3	-1	-1
4	2	-1	-1

Find the slope given two points
 (x_1, y_1) , (x_2, y_2)

$$\frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Find Slope given a graph:

Method A:

- Choose any two points
- Create table with points
- Find Δx and Δy

Method B:



Independent	Dependent
x	$f(x)$
Domain	Range
$2x = 4$	$y = 2$
11x	$y = 11$
x^2	$y = x^2$
Number of items	Total cost = $4x + 2$
Number of hours worked	Associated money is earned

Solve for 'y'	
$3x + 4y = 24$	
$-3x$	$-3x$
$4y = -3x + 24$	
$\frac{4y}{4} = \frac{-3x + 24}{4}$	
$y = -\frac{3}{4}x + 6$	

Steps:

- Add a positive or negative 'x' opposite sign of x .
- Cancel out pair then bring down correctly.
- Divide by the number in front of y .
- Rewrite.

Linear Functions:	
	Possible representations
Save 5% per week	$y = 5x$
50¢ string cost for 5 pieces	$y = 10x$
Charged for x miles	$y = mx$
Each hr = x dollars	$y = mx$
Car rentals \$15 plus 10 per hr	$y = mx + b$
Buy one shirt, you half price, normalization	$y = mx + b$
One person gets x minutes, $y = mx$	$y = mx$
Carries 2.5% commission on sales	$y = mx$

Distributive property

$$4(x + 3) = 4x + 12$$

$$-3x(7x - 4) + 6x = (13 - 3x)x^2 - 12x^2 + 24x$$

$$-21x^2 + 12x + 6x = 13x^2 + 6x - 13$$

$$3x^2 + 18x = 13$$

$$2x^2 + 3x^2 - 12x^2 = 0$$

$$y < 0$$

$$y \leq 0$$

$$y > 0$$

$$y \geq 0$$

$$3(15x^2 - 40x^2) + \frac{2(35x^2 - 6x^2)}{3}$$

$$9x^2 - 24x^2 + 22x^2 - 4x^2 = 5x^2 - 2x^2$$

$$y < 0$$

$$y \leq 0$$

$$y > 0$$

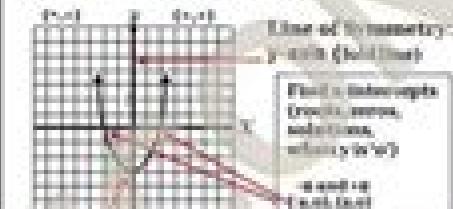
$$y \geq 0$$

Combine Like Terms
 Same Variables with the Same Exponents

More than one equal to
 Standard Form
 More than one above

More than one equal to
 Standard Form
 More than one above

Quadratics: Parabolas $y = x^2$



Independent	Dependent
x	$f(x)$
Domain	Range
$x^2 = 4$	$y = 4$
11x	$y = 11$
x^2	$y = x^2$
Number of items	Total cost = $4x^2$
Number of hours worked	Associated money is earned

Exponent Basics:	
$x^0 = 1$	$x^1 = x$
$x^2 = x \cdot x$	$x^3 = x \cdot x \cdot x$
$x^4 = x \cdot x \cdot x \cdot x$	$x^5 = x \cdot x \cdot x \cdot x \cdot x$
$x^6 = x \cdot x \cdot x \cdot x \cdot x \cdot x$	$x^7 = x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x$

Add Exponents & multiply numbers

$$x^2 \cdot x^3 = x^5$$

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

$$x^2 \cdot x^2 \cdot x^2 = x^6$$

$$x^2 \cdot x^2 \cdot x^2 \cdot x^2 = x^8$$

$$x^2 \cdot x^2 \cdot x^2 \cdot x^2 \cdot x^2 = x^{10}$$

$$x^2 \cdot x^2 \cdot x^2 \cdot x^2 \cdot x^2 \cdot x^2 = x^{12}$$

$$x^2 \cdot x^2 \cdot x^2 \cdot x^2 \cdot x^2 \cdot x^2 \cdot x^2 = x^{14}$$

$$x^2 \cdot x^2 = x^{16}$$

Subtract Exponents & Divide numbers	
$x^2 - x^1 = x^1$	$x^3 - x^2 = x^1$
$x^2 - x^2 = x^0$	$x^3 - x^3 = x^0$
$x^2 - x^3 = x^{-1}$	$x^3 - x^4 = x^{-1}$
$x^2 - x^4 = x^{-2}$	$x^3 - x^5 = x^{-2}$

Vertical Shift

Replacing y with $y + 2$ in $y = x^2$

results in shift of curve **UP**.

Replacing y with $y - 2$ in $y = x^2$

results in shift of curve **DOWN**.

y^2 shifts **DOWN** 2 units

$y^2 + 2$

y^2 and

$y^2 - 2$

Horizontal Compression

Changing x^2 to $(2x)^2$

the graph is compressed horizontally.

Result is **NARROWER**

y^2 is wider than y^2

y^2

y^2 and

y^2

Changing x^2 to $(0.5x)^2$

the graph is compressed horizontally.

Result is **WIDER**

y^2 is wider than y^2

y^2

y^2 and

y^2

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