Name: _____

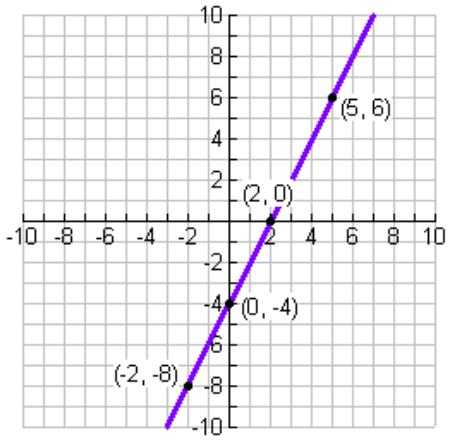
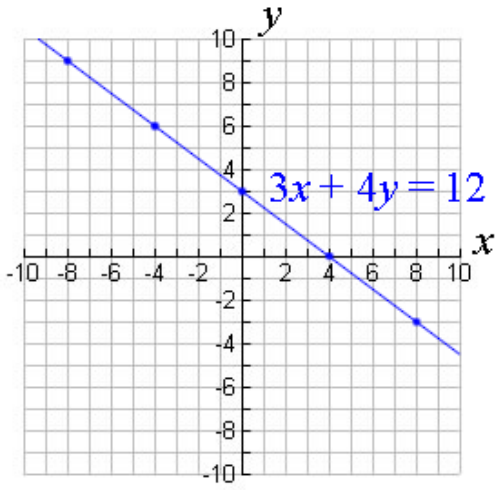
Lesson 6.2 – Slope Review

Definition of Slope =

Formula:

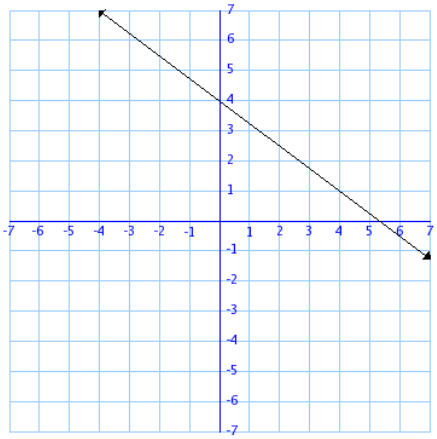
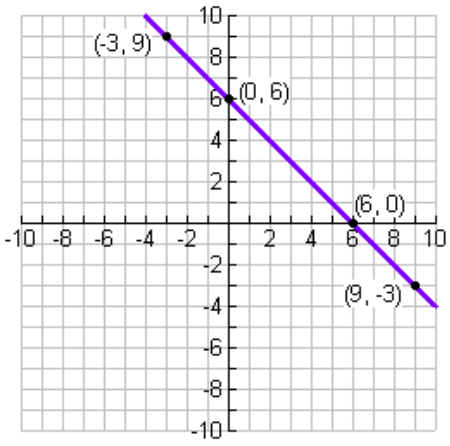
Slope = Positive	Slope = Negative	Slope = 0	Slope = undefined

Examples:

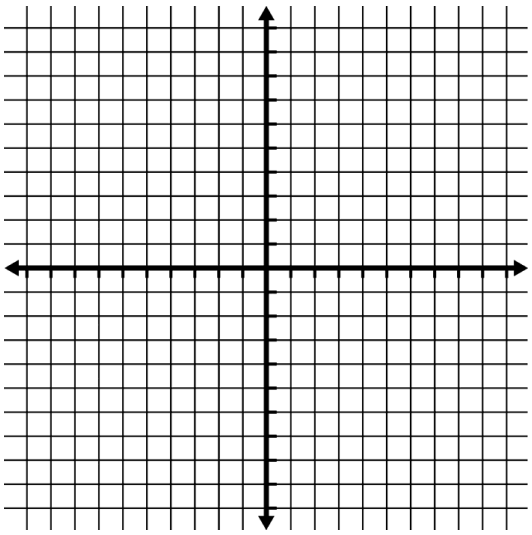
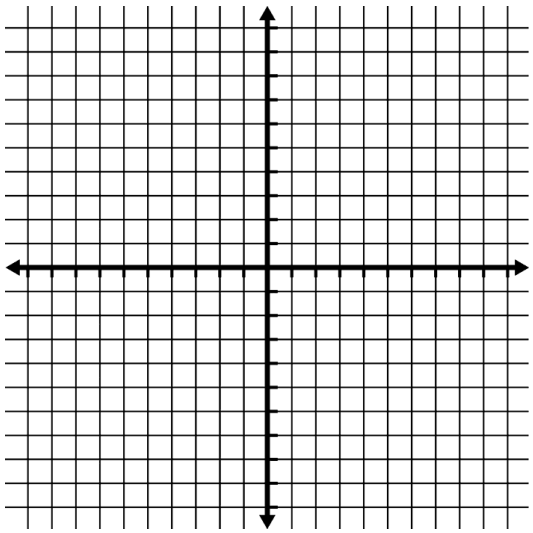
	
Graph that goes through (-2,5) and (3,-1)	Graph that goes through (2,-4) and (2,7)

Assignment:

Find the Slope:

	
Graph that goes through (-2.-3) and (3,7)	Graph that goes through (5,-2) and (-1,-2)

Draw a line through the origin with a slope of…

m=3/4	***m*=-3**
	

Slope-Intercept Form

$$y = mx + b$$

m = slope
b = y-intercept

Example:

Linear Equation:	Slope	Y-Intercept
$y = \frac{2}{3}x + 2$		
$y = -x - 5$		

Assignment:

Linear Equation:	Slope	Y-Intercept
$y = 2x - 5$		
$y = x + 2$		
$y = -\frac{1}{2}x + 3$		
$y = \frac{4}{3}x$		
$y = 7$		
$x = -2$		
$y + 2 = 2x - 5$		
$2y = 2x - 5$		

Graphing Method #2 – Using Slope

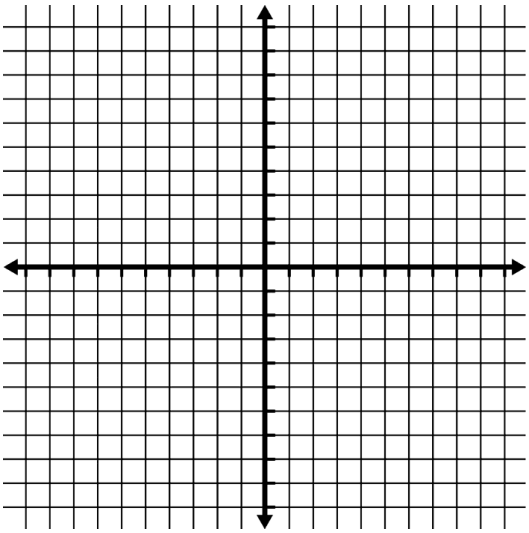
STEP #1: Plot the _____

STEP #2: Use the _____ to plot a second point

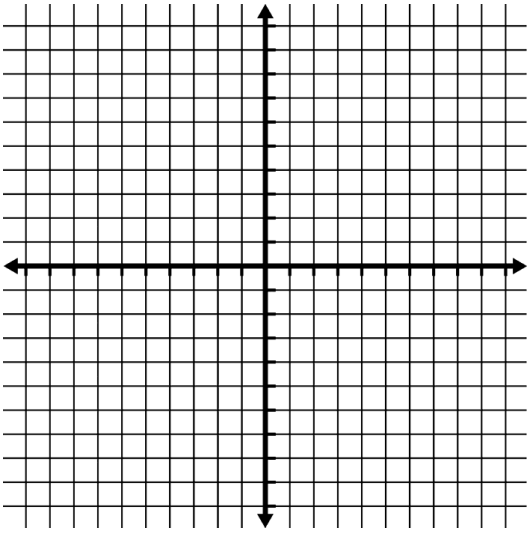
STEP #3: Draw a line through the points

Examples

a) $y = 2x + 1$



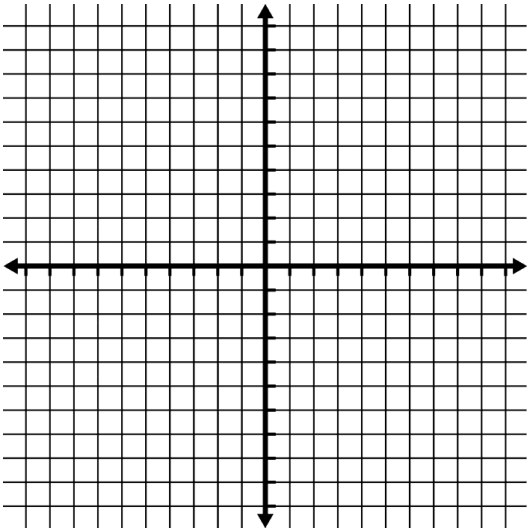
b) $y = -\frac{1}{3}x - 3$



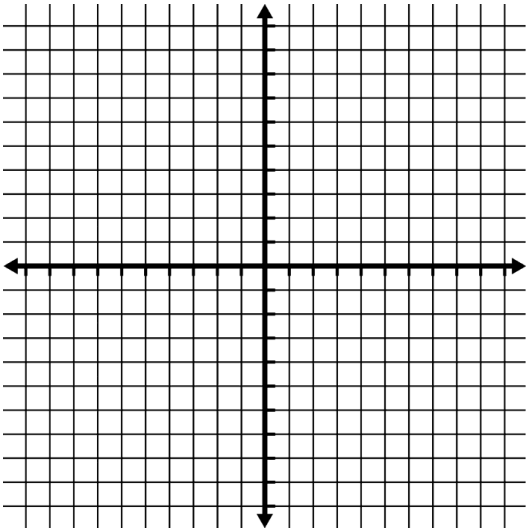
Assignment:

Graph each equation using the slope method. Show your work.

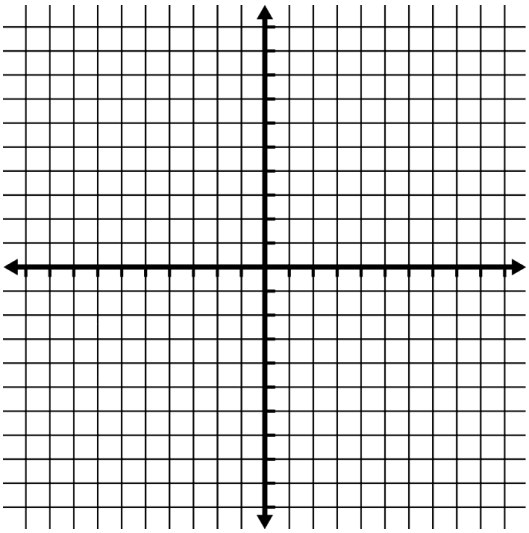
1) $y = \frac{4}{3}x + 3$



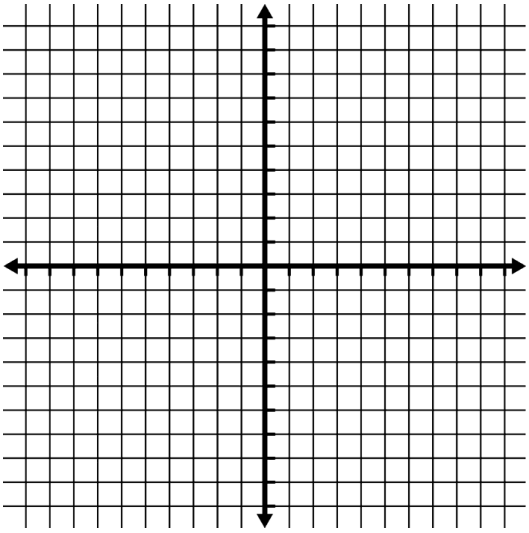
2) $y + 3 = 4x$



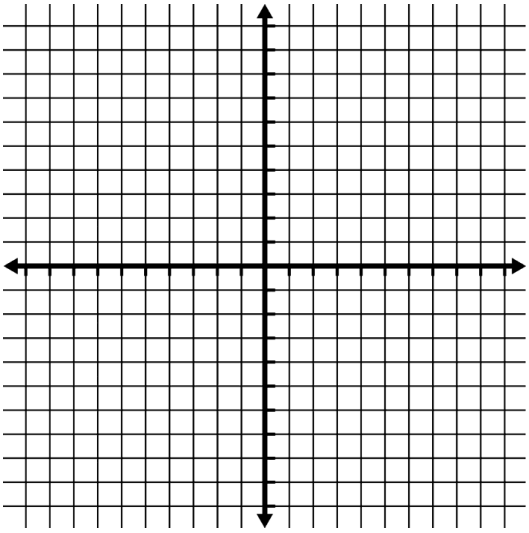
3) $y = -x + 6$



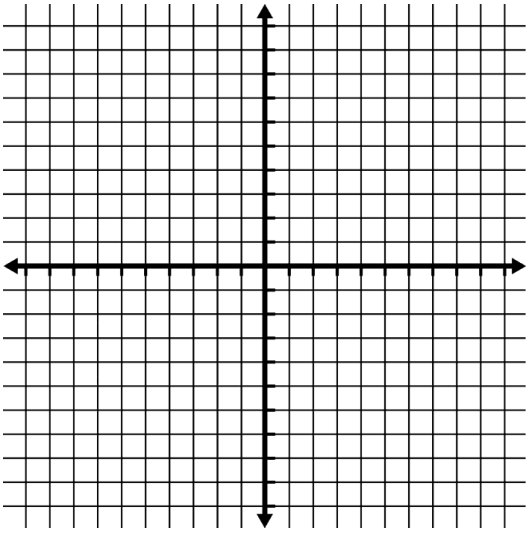
4) $y = -\frac{3}{2}x$



5) $y = -4$



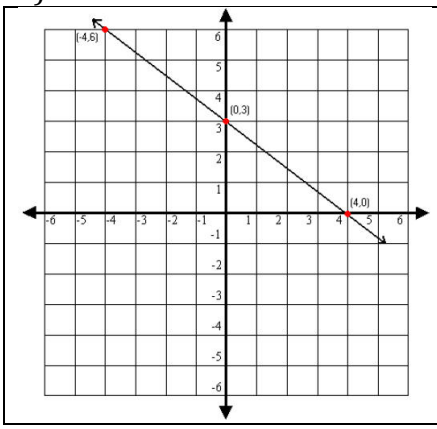
6) $x + y = 3 + y$



Practice Quiz:

1) Find the slope

a)



b)

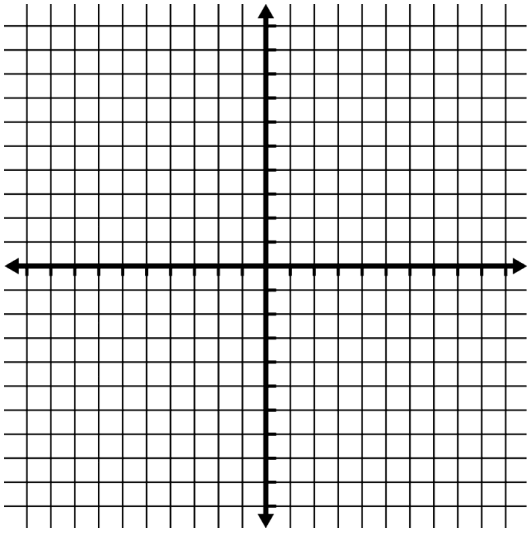
A linear graph that goes through the points (-3,1) and (3,4)

2) Analyze the equation

Linear Equation:	**Slope**	**Y-Intercept**
$y = -2x - 5$		

3) Graph the following equation using the slope method. Show your work.

$y = -\frac{2}{3}x + 4$



Name: teacher

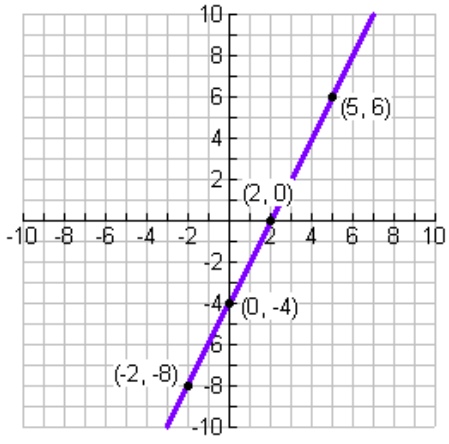
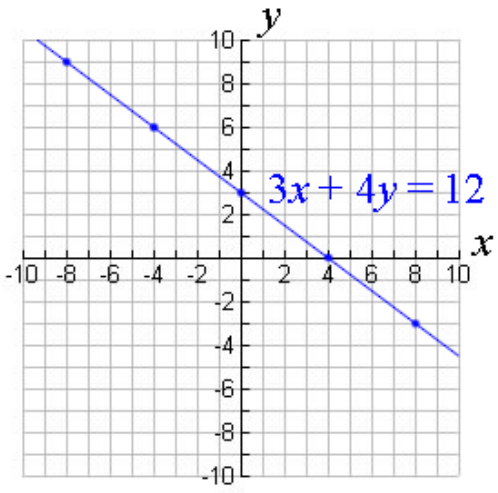
Lesson 6.2 – Slope Review

Definition of Slope: steepness of a line,

calculated using $\frac{rise}{run}$ or $\frac{change\ in\ y-value}{change\ in\ x-value}$ or $\frac{y_2-y_1}{x_2-x_1}$

Slope = Positive	Slope = Negative	Slope = 0	Slope = undefined

Examples:

	
Graph that goes through (-2,5) and (3,-1)	Graph that goes through (2,-4) and (2,7)

Graphing Method #2 – Using Slope

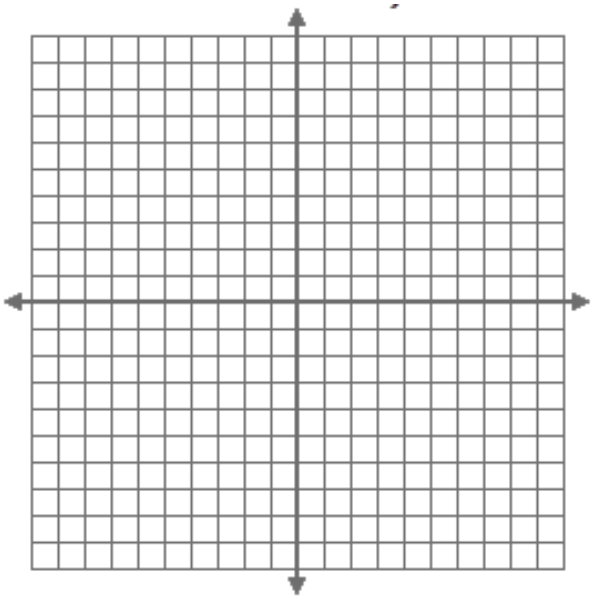
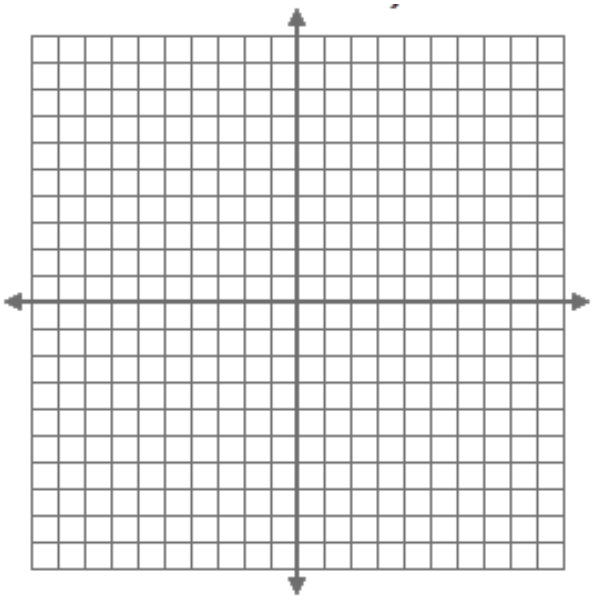
STEP #1: Plot the y-intercept

STEP #2: Use the slope to plot a second point

STEP #3: Draw a line through the points

Examples

a) $y = 2x + 1$



b) $y = -\frac{1}{3}x - 3$