Writing Linear Equations from graphs
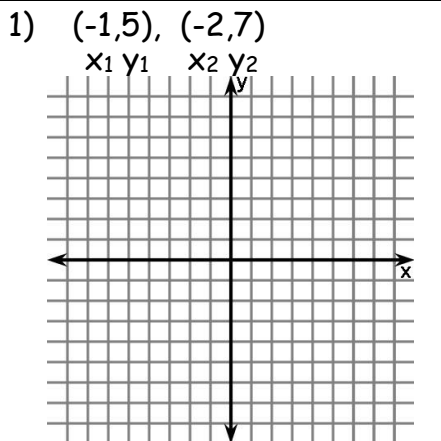
Algebra Foundations

Name_____

Date_____ Assignment #___

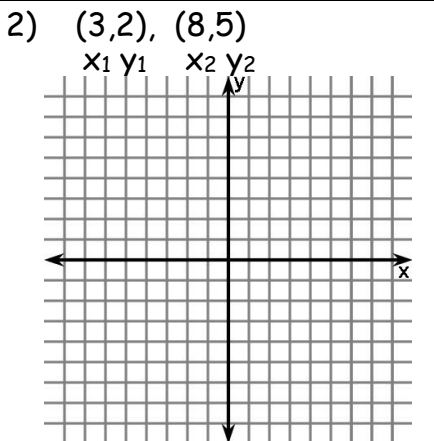*Graph the two given points.
*Sketch the line through the two points.
* (Calculate the slope)
* Find the y-intercept.
*Write the equation of the line using the slope and the y-intercept. ($y = mx + b$)

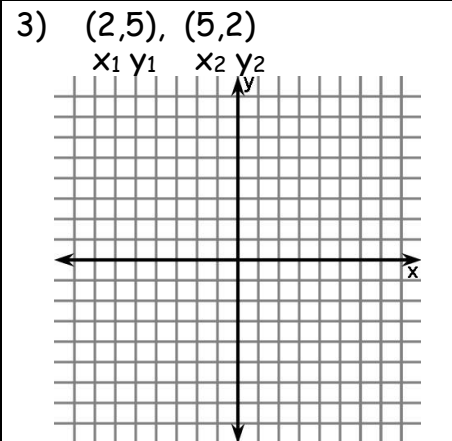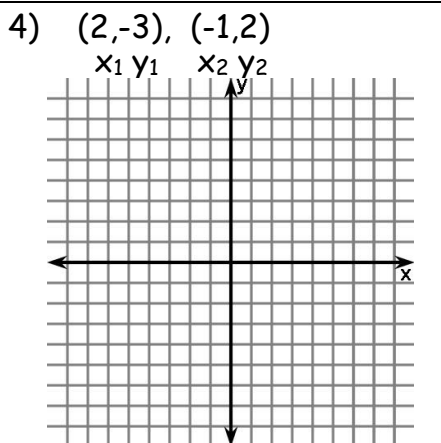| 1) (-1,5), (-2,7)	2) (3,2), (8,5)	3) (2,5), (5,2)
$x_1 \ y_1 \quad x_2 \ y_2$	$x_1 \ y_1 \quad x_2 \ y_2$	$x_1 \ y_1 \quad x_2 \ y_2$

slope = _____

y-int = _____

Equation
of Line:_____

slope = _____

y-int = _____
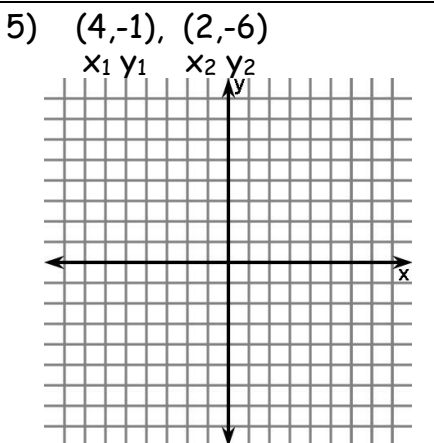
Equation
of Line:_____

slope = _____

y-int = _____

Equation
of Line:_____

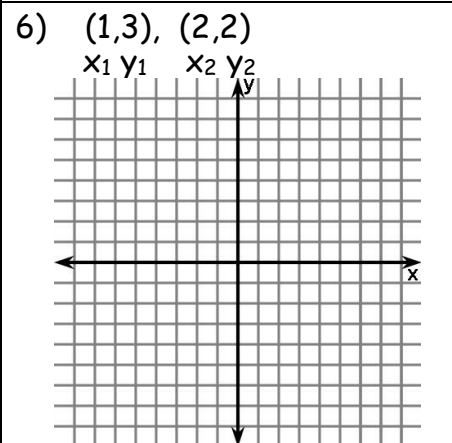| 4) (2,-3), (-1,2)	5) (4,-1), (2,-6)	6) (1,3), (2,2)
$x_1 \ y_1 \quad x_2 \ y_2$	$x_1 \ y_1 \quad x_2 \ y_2$	$x_1 \ y_1 \quad x_2 \ y_2$

slope = _____

y-int = _____

Equation
of Line:_____

slope = _____

y-int = _____

Equation
of Line:_____
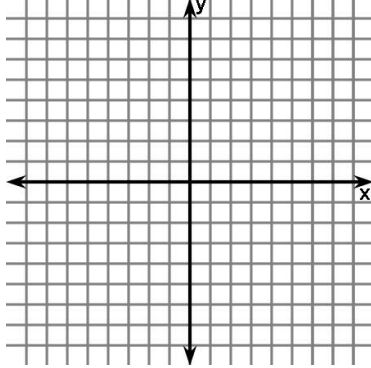
slope = _____

y-int = _____

Equation
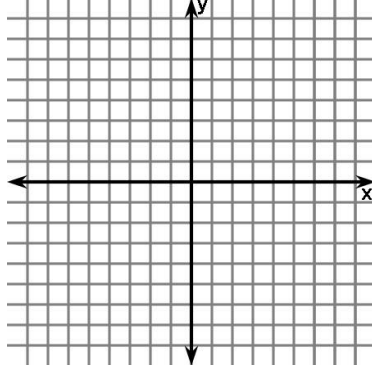of Line:_____

7)   (-7,3), (7,-2)

x_1 y_1 x_2 y_2

slope = _____

y-int = _____

Equation
of Line:_____

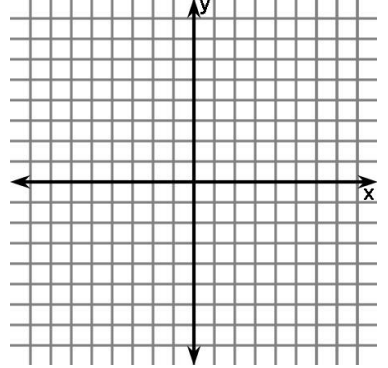8)   (8,-2), (6,2)

x_1 y_1 x_2 y_2

slope = _____

y-int = _____

Equation
of Line:_____

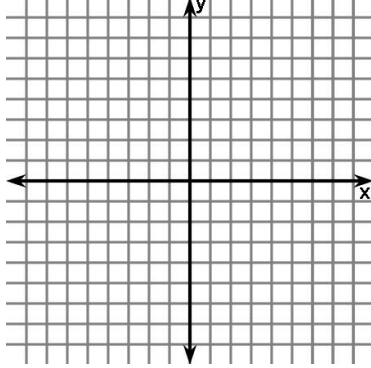9)   (5,7), (3,-2)

x_1 y_1 x_2 y_2

slope = _____

y-int = _____

Equation
of Line:_____

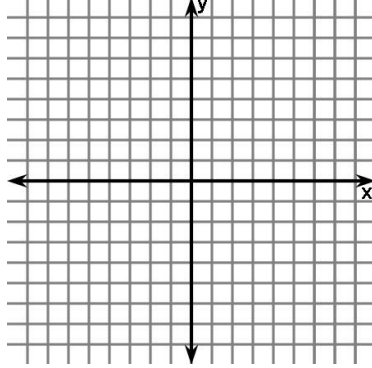10)   (-2,5), (7,-8)

x_1 y_1 x_2 y_2

slope = _____

y-int = _____

Equation
of Line:_____

11)   (5,-3), (4,3)

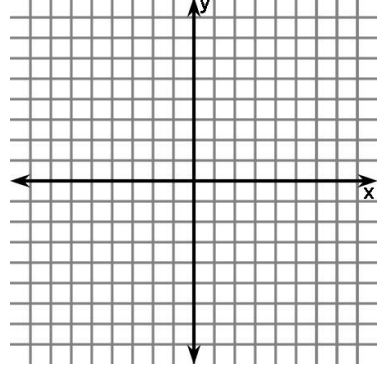x_1 y_1 x_2 y_2

slope = _____

y-int = _____

Equation
of Line:_____

12)   (2,-5), (-2,1)

x_1 y_1 x_2 y_2

slope = _____

y-int = _____

Equation
of Line:_____