Foundations for College Algebra

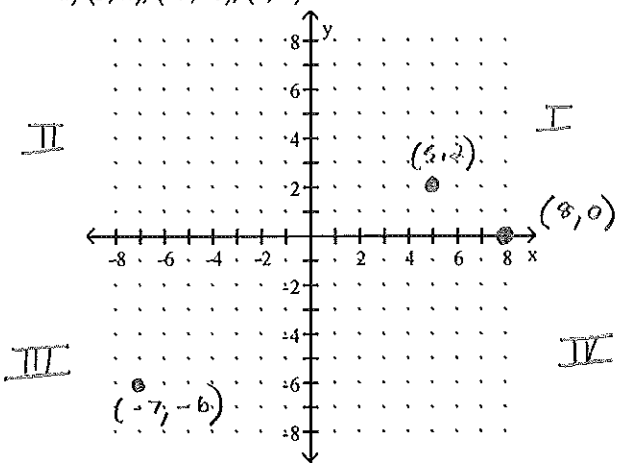
Spring 2017 - M. Goodroe

Quiz #6

Name Key

Plot and label the ordered pairs and label the quadrants of the graph.

1) (5, 2), (-7,-6), (8, 0)



Determine whether the ordered pair is a solution of the given linear equation.

2) $2x + 5y = -8$; (1, -2)

$2(1) + 5(-2) = -8$

$2 - 10 = -8$

$-8 = -8$ yes

3) $2x + 6y = -4$; (0, -2)

$2(0) + 6(-2) = -4$

$0 - 12 \neq -4$ no

Find three ordered pair solutions by completing the table. Then use the ordered pairs to graph the equation.

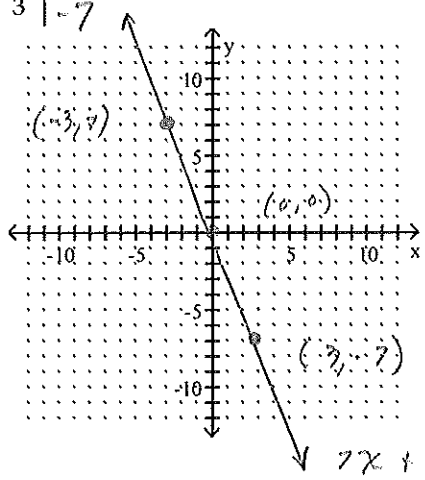
4) $7x + 3y = 0$

x	y
-3	7
0	0
3	-7

$7(-3) + 3y = 0$
$-21 + 3y = 0$
$3y = 21$
$y = 7$

$7(0) + 3y = 0$
$3y = 0$
$y = 0$

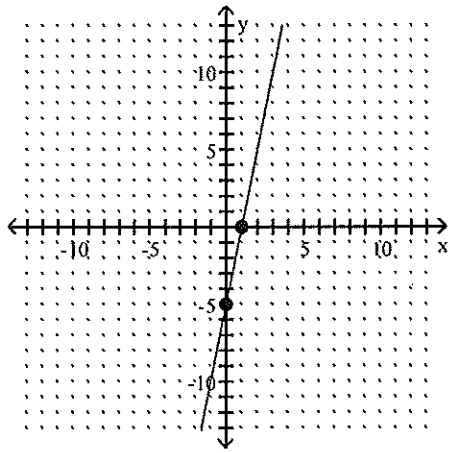
$7(3) + 3y = 0$
$21 + 3y = 0$
$3y = -21$
$y = -7$



$7x + 3y = 0$

Identify and label the x and y intercepts.

5)

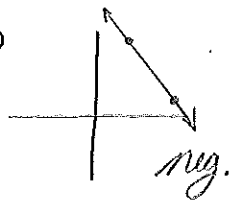


x-int: (1, 0)

y-int: (0, -5)

Find the slope of the line that passes through the given points and find a point above and below (5, 8).

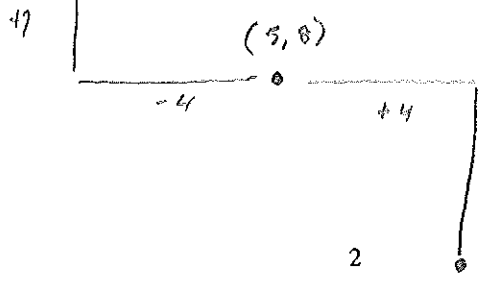
6) (9, 1) and (5, 8)

① 

②

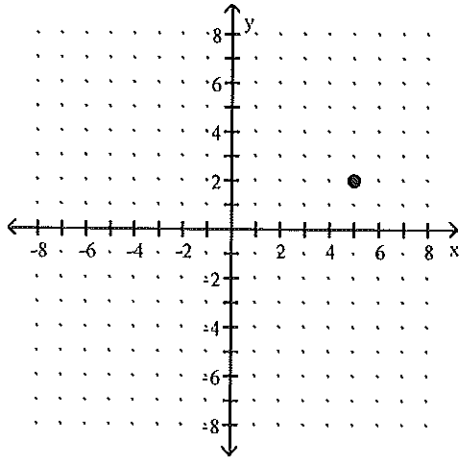
$m = \frac{(8) - (1)}{(5) - (9)} = \frac{7}{-4} = -\frac{7}{4}$

$(5-4, 8+7) = (1, 15)$



$(9+4, 8-7) = (9, 1)$

1) quadrant I

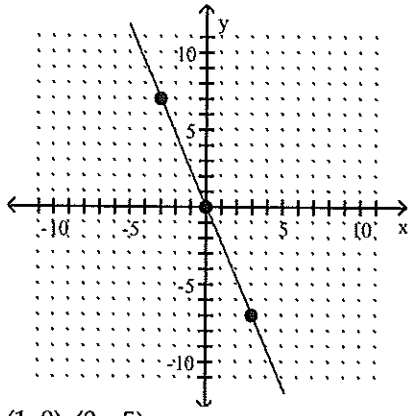


2) yes

3) no

4)

x	y
-3	7
0	0
3	-7



5) (1, 0), (0, -5)

6) $-\frac{7}{4}$