MAT1033

Name_____

Broward College

1) Determine if the ordered pair is a solution to the linear equation.

$4x + 3y = -13$; (2, -7)

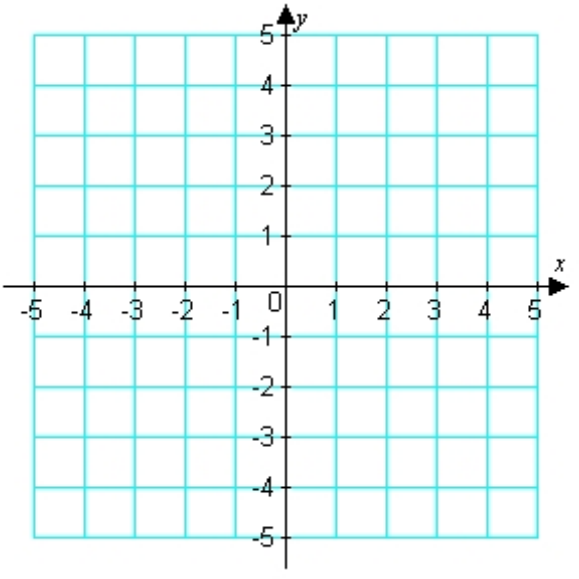
2) Determine if the ordered pair is a solution to the linear equation.

$y = \frac{4}{5}x - 5$; (15, 7)

3) Complete the table. Then graph the line defined by the points.

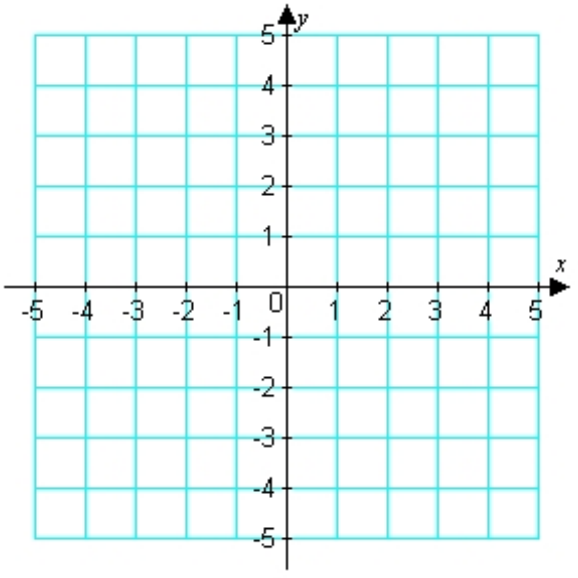
$9x + 2y = 6$

x	y
0	
	0
1	



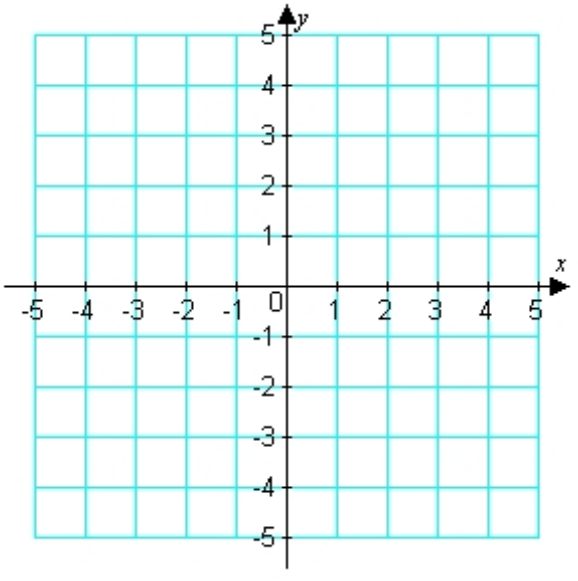
4) Graph the linear equation.

$3y = -2x - 1$



5) Graph the linear equation.

$x = -y + 4$

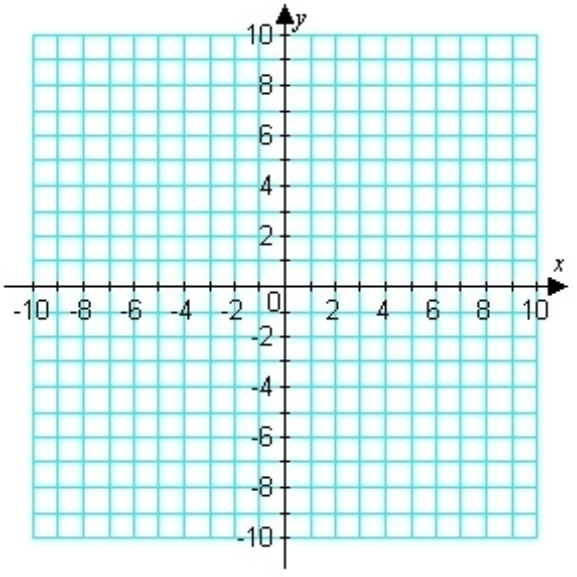


6) Find the *x*-intercept and the *y*-intercept then graph the equation.

$-2x + 5y = 40$

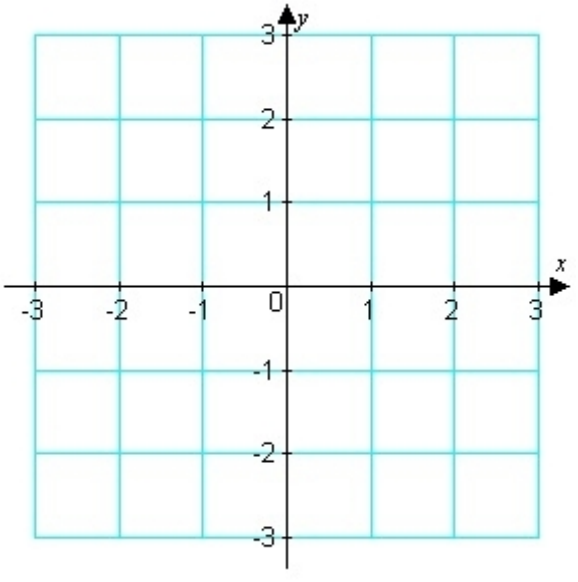
7) Find the *x*-intercept and the *y*-intercept and graph both. Then graph the line.

$3x - 5y = -30$



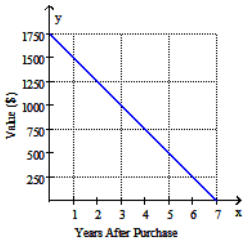
8) Find the *x*-intercept and the *y*-intercept and graph both. Then graph the line.

$y = -\frac{5}{3}x - 2$



9) A business owner buys several new computers for the office for $1750 each. The accounting office depreciates each computer by $250 per year. The value y (in $) for each computer can be represented by $y = 1750 - 250x$, where x is the number of years after purchase.

Computer Value Versus Years After Purchase



a. How much will a computer be worth 1 yr after purchase?
b. After how many years will the computer be worth only $250?
c. Determine the y-intercept and interpret its meaning in the context of this problem.
d. Determine the x-intercept and interpret its meaning in the context of this problem.

10) Identify the line as either vertical or horizontal, and graph the line.
$x = -3$

11) Identify the line as either vertical or horizontal, and graph the line.
$-2y + 1 = -5$

12) Which of the lines defined here have only one unique intercept?
a. $x = 8$
b. $-8x - 7y = -7$
c. $9y = 5$
d. $-3x - 3y = 0$