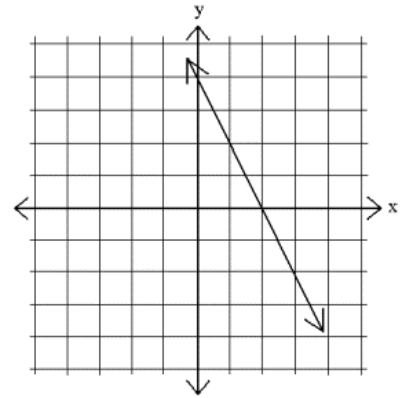


1. Are the following points solutions of the linear equation  $y = -2x + 4$  ?

a.)  $(-1, 2)$  \_\_\_\_\_

b.)  $(3, -2)$  \_\_\_\_\_



2. Find the **slope** of the line that passes through the following points. Show your work!

a.)  $(8, -1)$  and  $(-6, 3)$

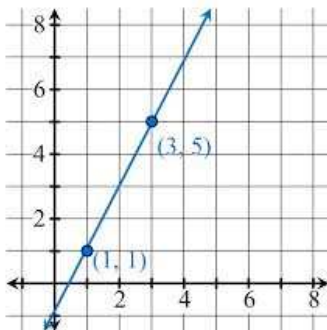
b.)

$x$	7	9	11	13	15
$y$	20	15	10	5	0

Slope = \_\_\_\_\_

slope = \_\_\_\_\_

c.)



slope = \_\_\_\_\_

3. The slope of a **horizontal line** is \_\_\_\_\_

4. The slope of a **vertical line** is \_\_\_\_\_

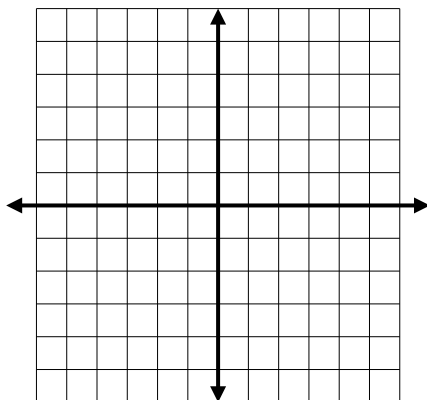
5. Solve the given equation for  $y$ . (Rewrite in slope-intercept form)

$$-6x + 10y = 30$$

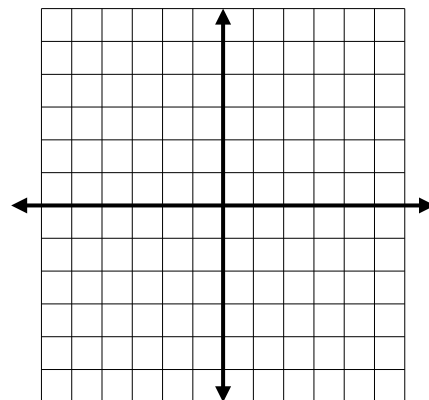
\_\_\_\_\_

6. Graph the following equations.

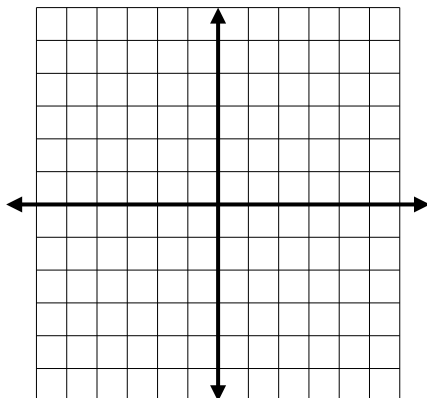
a.)  $y = -4x + 2$



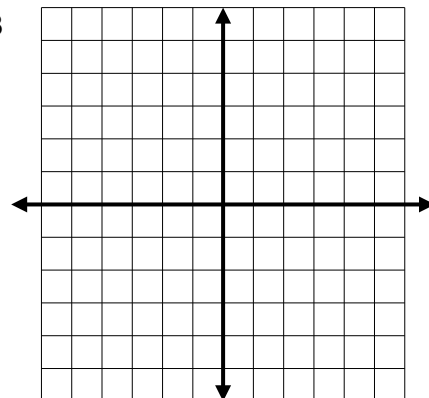
b.)  $y = \frac{1}{3}x - 5$



c.)  $x = 4$



d.)  $-9x + 6y = 18$



7. Write the equation of the line in *slope-intercept form*.

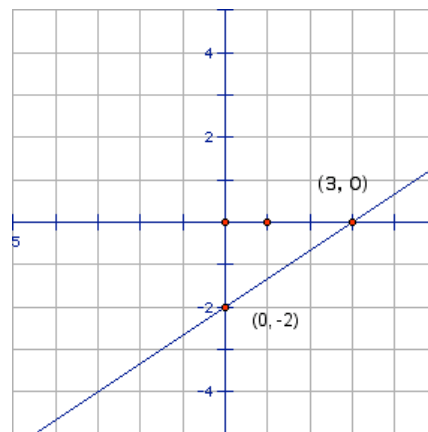
a.) slope =  $-\frac{1}{2}$  and y-intercept = 6

Equation: \_\_\_\_\_

c.) passes through (4, -3) and (-6, 2)

Equation: \_\_\_\_\_

b.)



Equation: \_\_\_\_\_

d.) Write the equation of the line that passes through (6, 3) and *parallel* to  $y = -2x + 1$

Equation: \_\_\_\_\_

8.a) How can we tell if lines are parallel?

8.b) How can we tell if lines are perpendicular?

9. The cost of a taxi ride is \$2.00 for each mile plus an initial fee. Your fare for 13 miles is \$31.00

a.) How much is the initial fee (b)? \_\_\_\_\_

b.) Write an equation ( $y=mx+b$ ) to model this situation \_\_\_\_\_

c.) What would your fare be if you rode 17 miles? \_\_\_\_\_

Use the given tile pattern to answer question numbers 10–13

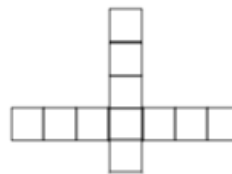
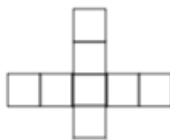
**Figure 0**

Figure 1

Figure 2

Figure 3

**Figure 4**



10. Draw Figure 0 and Figure 4.

11. Complete the table representing the tile pattern.

<b>Figure Number</b>					
<b>Tiles</b>					

12. State the Growth Rate: \_\_\_\_\_ 13. Write the equation (rule) for this pattern: \_\_\_\_\_

14. Give the equation for the line that is perpendicular to  $y = 3x - 4$  and with y-intercept of  $-\frac{3}{4}$