

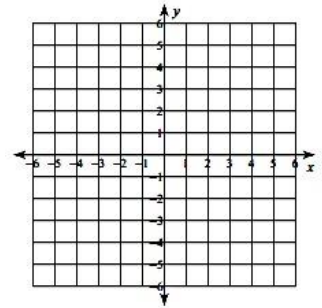
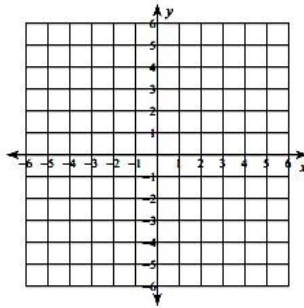
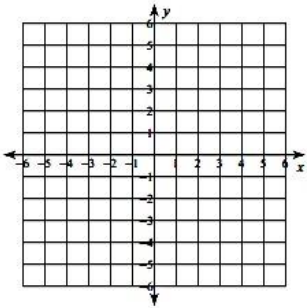
1.  $y = mx + b$  What does the  $m$  represent? \_\_\_\_\_ What does the  $b$  represent? \_\_\_\_\_

Give the **slope**, **y-intercept** and **x-intercept** and **sketch the graph** of each line

2.  $y = -\frac{3}{2}x + 6$

3.  $y + 9x = 3$

4.  $2x - y = 4$



Rise: \_\_\_\_\_ Run: \_\_\_\_\_  
 Slope: \_\_\_\_\_  
 y-intercept: (0, \_\_\_\_\_)  
 x-intercept: (\_\_\_\_\_, 0)

Rise: \_\_\_\_\_ Run: \_\_\_\_\_  
 Slope: \_\_\_\_\_  
 y-intercept: \_\_\_\_\_  
 x-intercept: \_\_\_\_\_

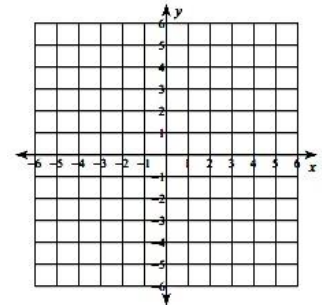
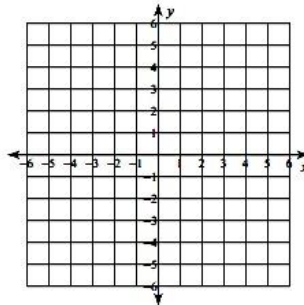
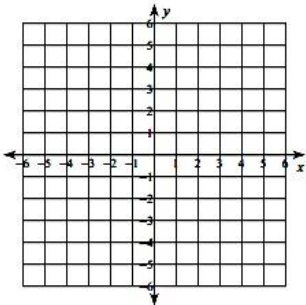
Rise: \_\_\_\_\_ Run: \_\_\_\_\_  
 Slope: \_\_\_\_\_  
 y-intercept: \_\_\_\_\_  
 x-intercept: \_\_\_\_\_

**Sketch the graph** from the following and **write the equation** of the line.

5.  $A(-3, -4)$  and  $B(2, 6)$

6.  $(5, 0)$  and  $b = (0, 3)$

7.  $m = \frac{1}{2}$  and  $(2, 6)$



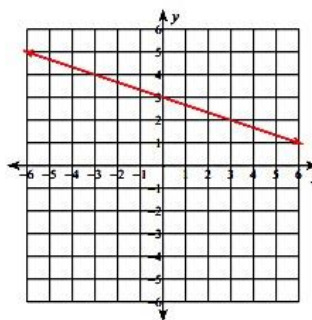
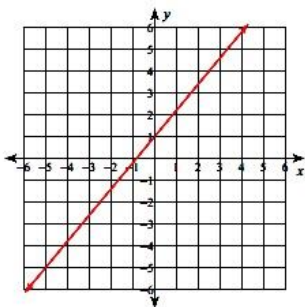
Rise: \_\_\_\_\_ Run: \_\_\_\_\_  
 Equation: \_\_\_\_\_

Rise: \_\_\_\_\_ Run: \_\_\_\_\_  
 Equation: \_\_\_\_\_

Rise: \_\_\_\_\_ Run: \_\_\_\_\_  
 Equation: \_\_\_\_\_

**Mark the rise and run** on the graph or table below and then **write the equation** of the line.

8. Equation: \_\_\_\_\_ 9. Equation: \_\_\_\_\_ 10. Equation: \_\_\_\_\_



X	Y
0	5
1	8
2	11

**Write an equation** for the following.

11. Grandma opens a savings account and deposits \$50 when Sara is born. Every year, on her birthday, Grandma deposits \$20 more. Write an equation to tell how much money Sara will have in any given year.