

**Unit 2 Language Of Geometry**  
**Day 7 Worksheet**  
 (PH Lesson 3-5)

**Name:** \_\_\_\_\_  
**Date:** \_\_\_\_\_ **Hour:** \_\_\_\_\_

**Find the slope of the line passing through the given points.**

1.  $(0,0), (3,5)$

2.  $(5,-2), (-7,4)$

3.  $(-6,3), (-2,-9)$

4.  $(6,-9), (-4,3)$

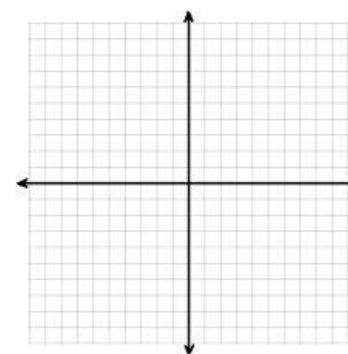
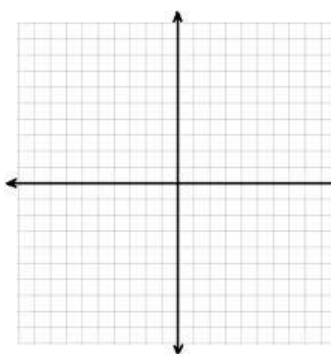
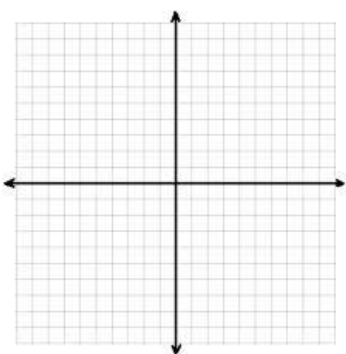
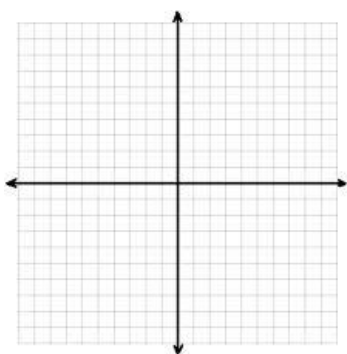
**Plot the line containing the given point with slope  $m$ .**

5.  $(-2, 5); m = -\frac{3}{4}$

6.  $(5, 0); m = 2$

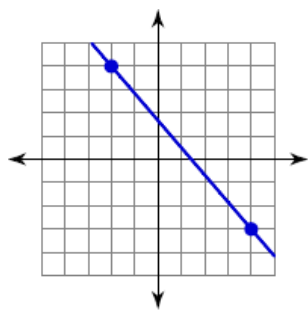
7.  $(6, -4); m$  *undefined*

8.  $(-5, 3); m = -1$



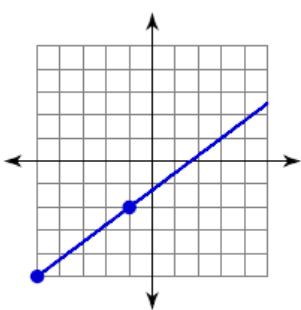
**Find the slope of the given line. Does the line have positive, negative slope, or neither?**

9.



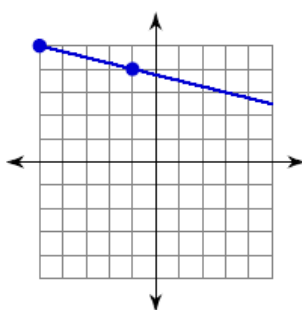
$m =$  \_\_\_\_\_

10.



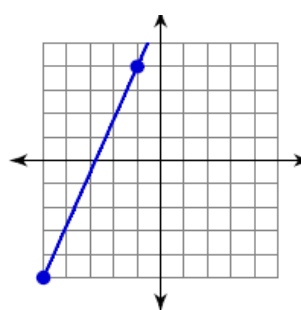
$m =$  \_\_\_\_\_

11.



$m =$  \_\_\_\_\_

12.



$m =$  \_\_\_\_\_

**Write the slope-intercept form of the equation of each line given the slope and y-intercept.**

13. Slope =  $-1$ , y-intercept =  $-5$

14. Slope =  $-1$ , y-intercept =  $-1$

15. Slope =  $3/2$ , y-intercept =  $0$

16. Slope =  $3/4$ , y-intercept =  $4$

**State the slope and y-intercept for each line. Use the slope and y-intercept to plot the line.**

17.  $y = \frac{1}{3}x - 2$

18.  $y = -\frac{1}{2}x + 5$

19.  $y = 3x - 6$

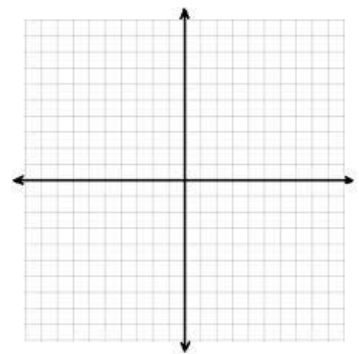
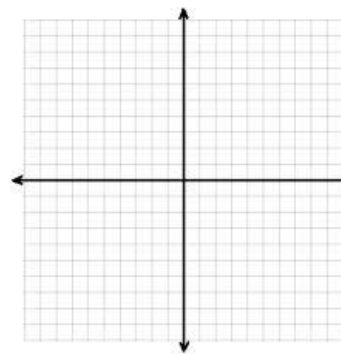
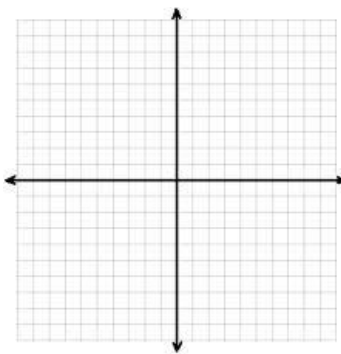
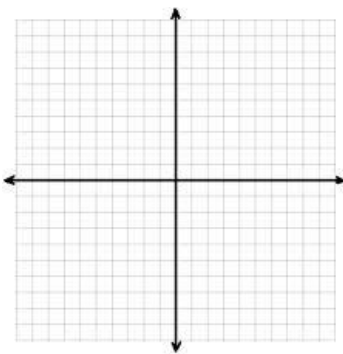
20.  $y = -2x$

Slope = \_\_\_\_\_  
y-intercept: \_\_\_\_\_

Slope = \_\_\_\_\_  
y-intercept: \_\_\_\_\_

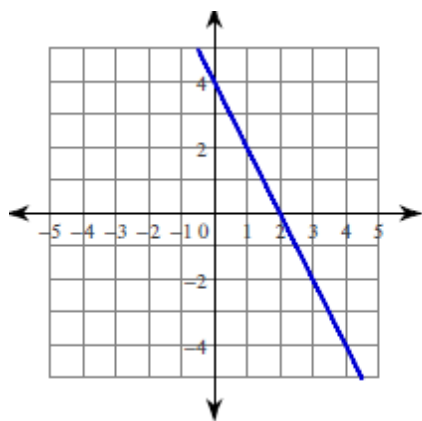
Slope = \_\_\_\_\_  
y-intercept: \_\_\_\_\_

Slope = \_\_\_\_\_  
y-intercept: \_\_\_\_\_



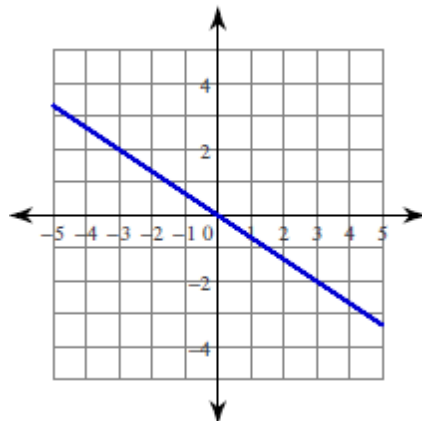
**Find the slope and y-intercept of each line. Write the equation of the line.**

21.



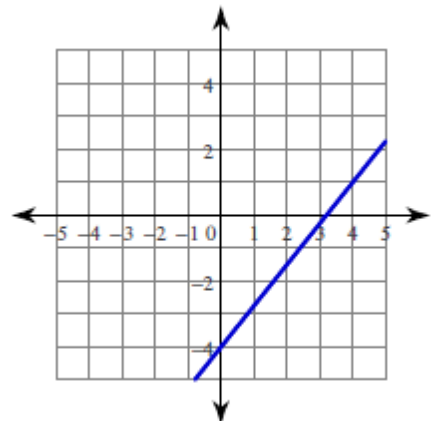
Slope = \_\_\_\_\_  
y-intercept: \_\_\_\_\_  
Equation: \_\_\_\_\_

22.



Slope = \_\_\_\_\_  
y-intercept: \_\_\_\_\_  
Equation: \_\_\_\_\_

23.



Slope = \_\_\_\_\_  
y-intercept: \_\_\_\_\_  
Equation: \_\_\_\_\_