

**Practice Set 4.4**  
The Slope-Intercept Form of the Equation of a Line

Find the (a) slope and (b) the y-intercept of the line with the given equation.

1.  $y = 2x - 4$

1a. \_\_\_\_\_

b. \_\_\_\_\_

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

2a. \_\_\_\_\_

b. \_\_\_\_\_

3.  $y = 3$

3a. \_\_\_\_\_

b. \_\_\_\_\_

4.  $y = 6 - x$

4a. \_\_\_\_\_

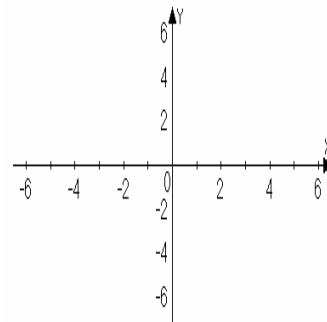
b. \_\_\_\_\_

Begin by solving the linear equation for  $y$ . This will put the equation in slope-intercept form. Then find the (a) slope and (b) the y-intercept of the line with the equation. (c) Graph the equation using the slope and y-intercept.

5.  $y = \frac{2}{5}x + 3$

5a. \_\_\_\_\_

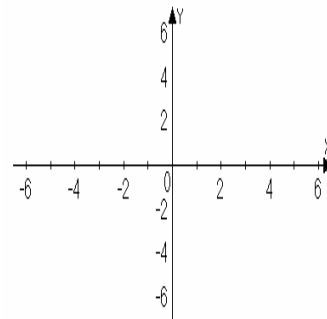
b. \_\_\_\_\_



6.  $-2x + y = -1$

6a. \_\_\_\_\_

b. \_\_\_\_\_

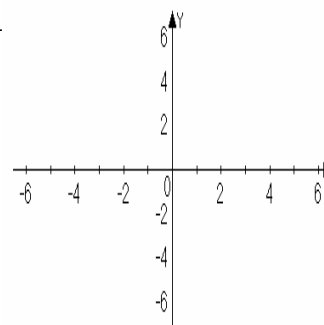


Name \_\_\_\_\_ Date \_\_\_\_\_

7.  $-3x - 4y = 0$

7a. \_\_\_\_\_

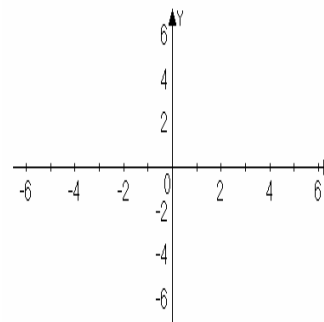
b. \_\_\_\_\_



8.  $2x + 3y = -6$

8a. \_\_\_\_\_

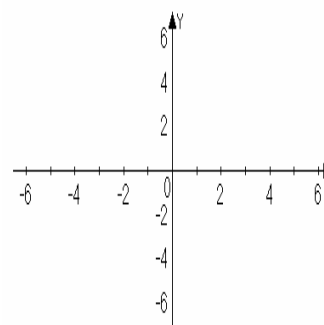
b. \_\_\_\_\_



9.  $-x + 4y = 8$

9a. \_\_\_\_\_

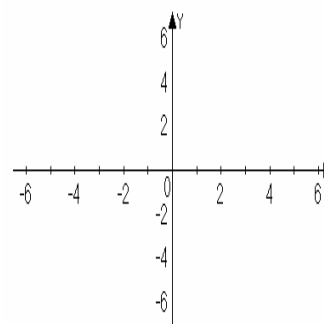
b. \_\_\_\_\_



10.  $4x - 2y = 8$

10a. \_\_\_\_\_

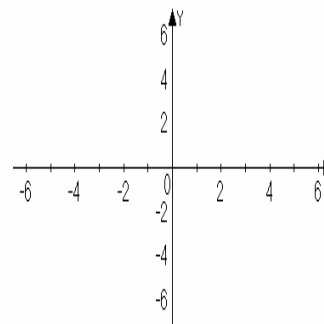
b. \_\_\_\_\_



11.  $5x + 3y = -12$

11a. \_\_\_\_\_

b. \_\_\_\_\_



Name \_\_\_\_\_

Date \_\_\_\_\_

Fill in the blanks.

12. A line with a \_\_\_\_\_ slope slants up from left to right.

13. A line with a \_\_\_\_\_ slope slants down from left to right.

14. A horizontal line has \_\_\_\_\_ slope.

15. A vertical line has \_\_\_\_\_ slope.