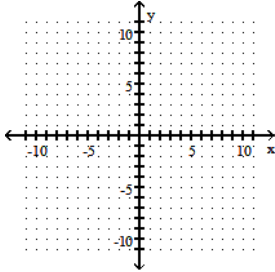


Practice 10.5

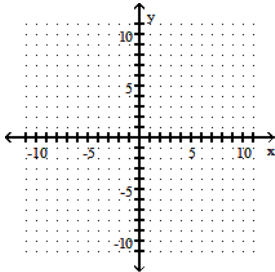
Name(s) _____

Use the slope-intercept form to graph the equation.

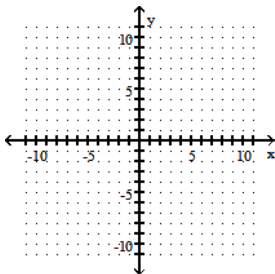
1) $y = -\frac{1}{3}x + 3$



2) $7x + y = 0$



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



Use the equation to identify the slope and the y-intercept of the graph.

4) $y = \frac{13}{4}x - 6$

5) $-2x + 4y = 12$

6) $y - 4 = 1$

Find an equation of the line with the given slope that passes through the given point. Write the equation in the form $Ax + By = C$.

7) $m = -\frac{4}{9}; (5, 2)$

8) $m = \frac{1}{4}; (-9, 2)$

Find an equation of the line passing through each pair of points. Write the equation in the form $Ax + By = C$.

9) $(-6, 2)$ and $(-1, 5)$

10) Through $(1, 6)$ and parallel to the y -axis.

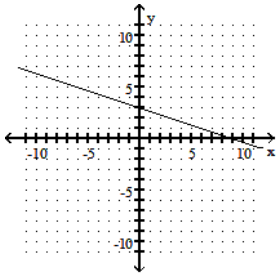
Solve. Assume the exercise describes a linear relationship. When writing a linear equation, write the equation in slope-intercept form.

11) An investment is worth \$3038 in 1991. By 1996 it has grown to \$4908. Let y be the value of the investment in the year x , where $x = 0$ represents 1991. Write a linear equation that models the value of the investment in the year x .

Answer Key

Testname: M050_10.5WKS

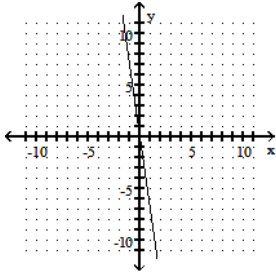
1)



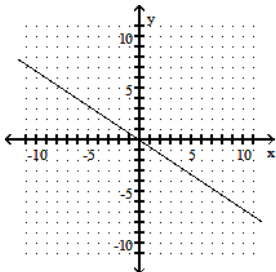
10) $x = 1$

11) $y = 374x + 3038$

2)



3)



4) $m = \frac{13}{4}; (0, -6)$

5) $m = \frac{1}{2}; (0, 3)$

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

7) $4x + 9y = 38$

8) $x - 4y = -17$

9) $3x - 5y = -28$