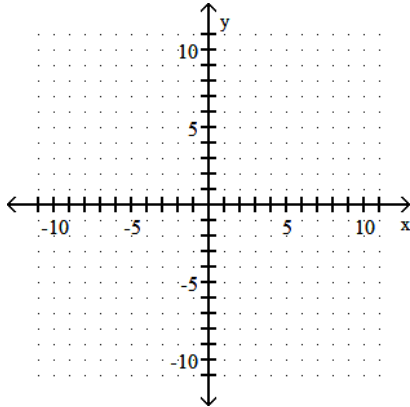


Practice 10.5

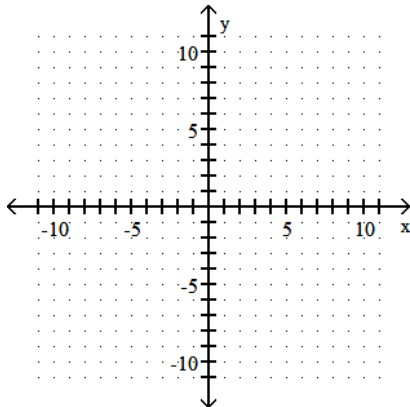
Name(s) \_\_\_\_\_

Use the slope-intercept form to graph the equation.

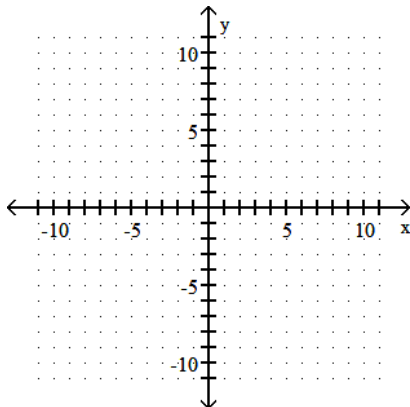
1)  $y = -\frac{1}{3}x + 3$



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.

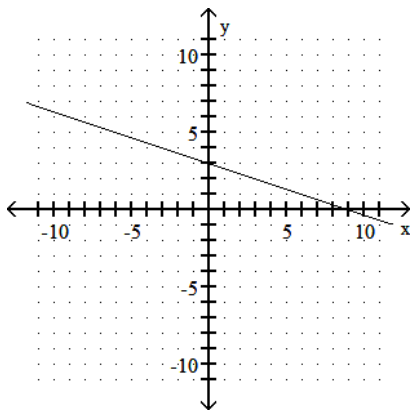
Solve. Assume the exercise describes a linear relationship. When writing a linear equation, write the equation in slope-intercept form.

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  $x$ .

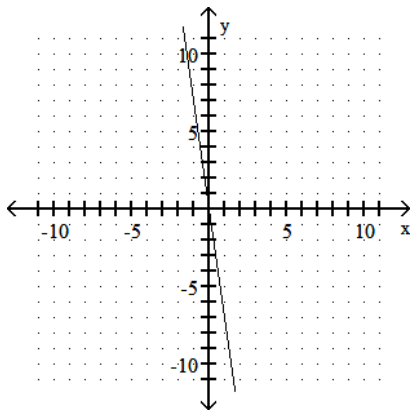
Answer Key

Testname: 10.5WKS

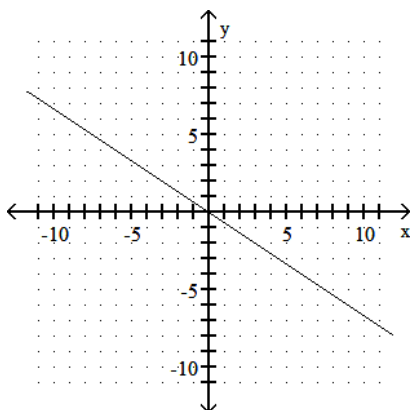
1)



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)  $3x - 5y = -28$

Answer Key

Testname: 10.5WKS

10)  $x = 1$

11)  $y = 374x + 3038$