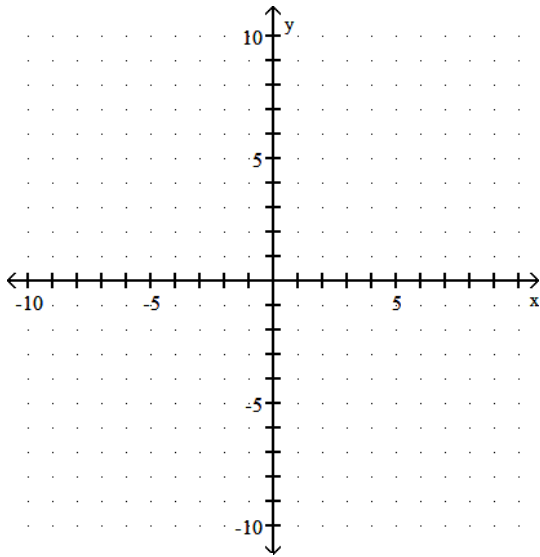


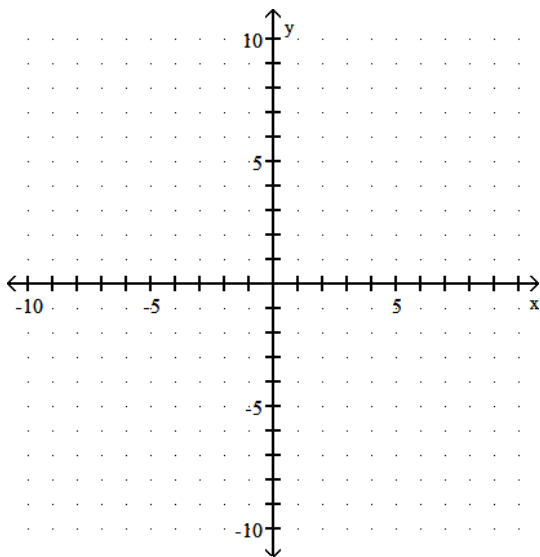
Name \_\_\_\_\_

Draw a line that has the given slope and y-intercept.

1)  $m = \frac{1}{2}$ ,  $b = 3$



2)  $m = -\frac{1}{3}$ ,  $b = 4$



Complete the following:

(a) Write the equation in slope-intercept form.

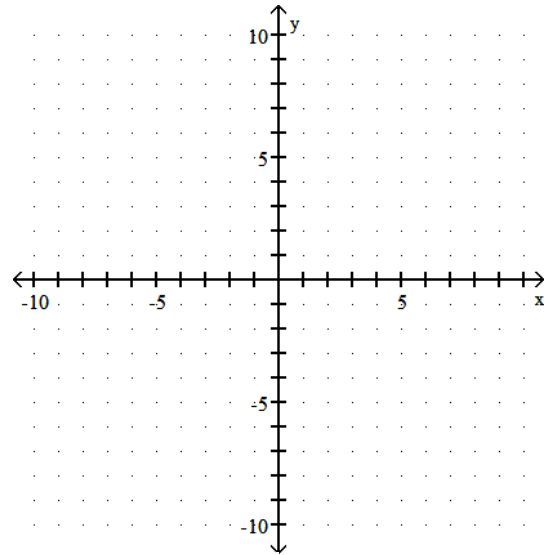
(b) Give the slope and y-intercept of the line.

3)  $9x + 7y = 55$

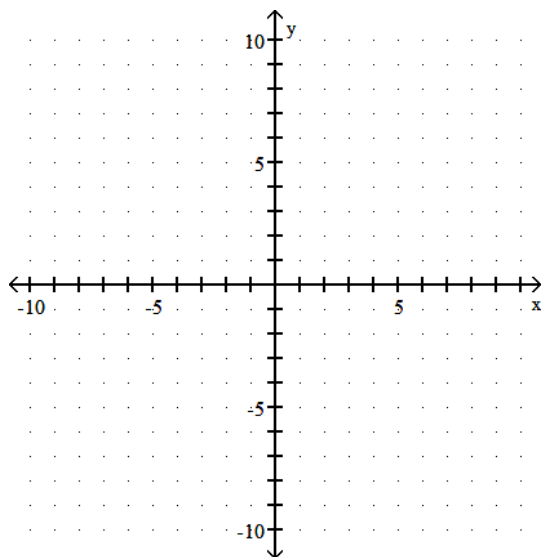
4)  $-4x + y = 15$

Graph the equation.

5)  $y = \frac{1}{3}x + 4$

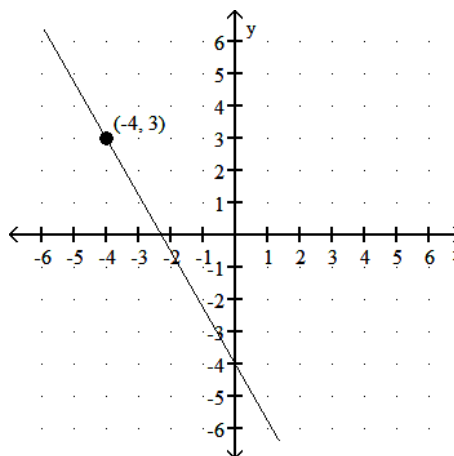


6)  $y = -\frac{1}{6}x + 4$



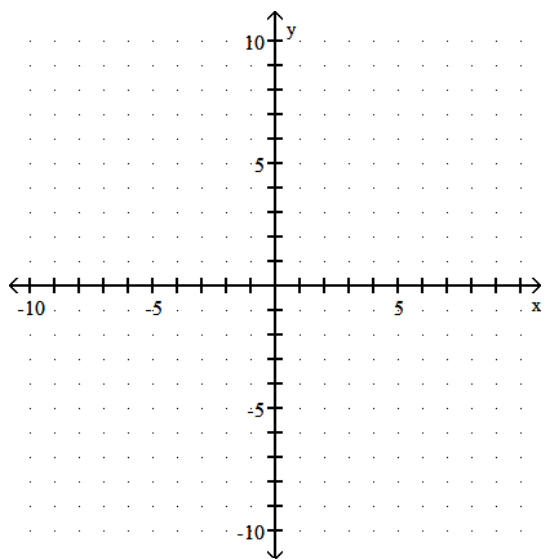
Use the labeled point to write the point-slope form for the line.

10)



Graph the equation.

7)  $y = -\frac{1}{5}x + 2$



Write the point-slope form in slope-intercept form.

11)  $y - 6 = -9(x + 5)$

12)  $y + 2 = \frac{3}{5}(x - 5)$

Find the slope-intercept form for the line satisfying the conditions.

13) Slope - 6, passing through (4, 4)

Determine whether the given point lies on the line.

8) (-3, 8);  $y - 11 = x$

9) (0, 4);  $y = \frac{1}{2}(x + 6) + 3$

14) Passing through  $(-2, -6)$  and  $(8, 1)$

Solve the problem.

18)

A gas station sells 4820 gallons of regular unleaded gasoline on a day when they charge \$4.35 per gallon, whereas they sell 3953 gallons on a day that they charge \$4.40 per gallon. Find a linear function that expresses gallons sold as a function of price.

15) x-intercept 7, y-intercept -8

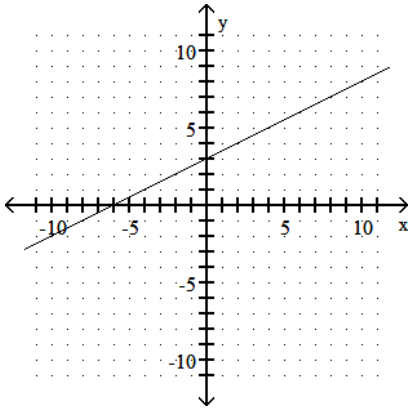
16) Parallel to  $y = 2x - 9$ , passing through  $(1, -5)$

17) Perpendicular to  $y = \frac{1}{3}x + 19$ , passing through the point  $(-5, -6)$

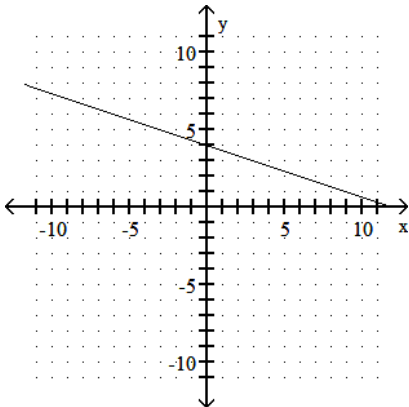
Answer Key

Testname: WKS\_10.5\_10.6

1)



2)



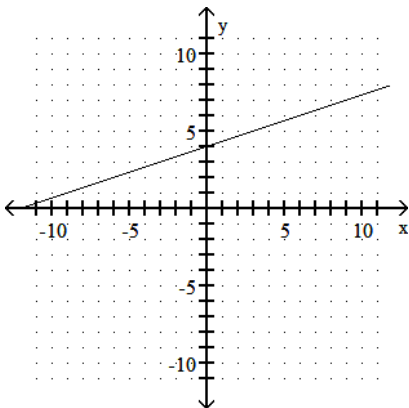
3) (a)  $y = -\frac{9}{7}x + \frac{55}{7}$

(b)  $-\frac{9}{7}; \frac{55}{7}$

4) (a)  $y = 4x + 15$

(b) 4; 15

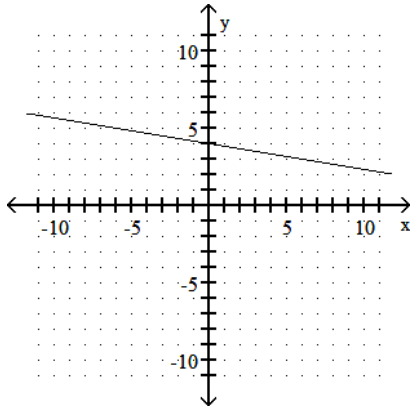
5)



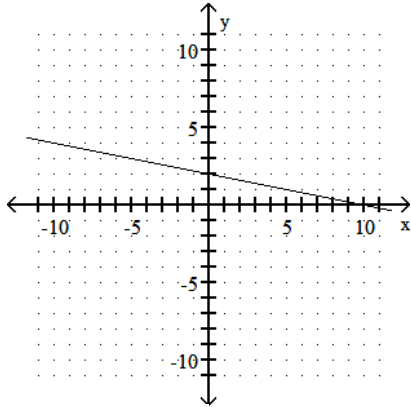
Answer Key

Testname: WKS\_10.5\_10.6

6)



7)



8) Yes

9) No

10)  $y - 3 = -\frac{7}{4}(x + 4)$

11)  $y = -9x - 39$

12)  $y = \frac{3}{5}x - 5$

13)  $y = -6x + 28$

14)  $y = \frac{7}{10}x - \frac{23}{5}$

15)  $y = \frac{8}{7}x - 8$

16)  $y = 2x - 7$

17)  $y = -3x - 21$

18)  $y = -17,340x + 80,249$