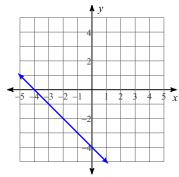
Activity 0211

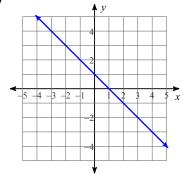
Date_____ Period____

Write the slope-intercept form of the equation of each line.

1)



2)



3)
$$x + 2y = 10$$

4)
$$5x - 6y = 30$$

Write the slope-intercept form of the equation of the line through the given points.

5) through:
$$(-3, -1)$$
 and $(-3, 3)$

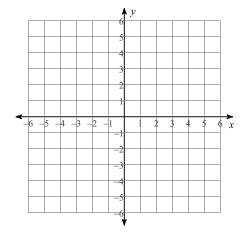
Write the slope-intercept form of the equation of the line described.

6) through:
$$(-2, 0)$$
, parallel to $y = -x + 1$

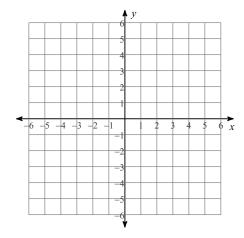
7) through:
$$(-1, 0)$$
, perp. to $y = -\frac{1}{3}x - 5$

Sketch the graph of each line.

8)
$$x - 3y = 3$$

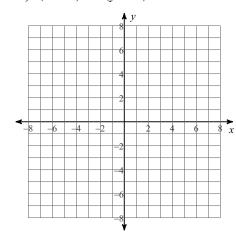


9)
$$4x + 5y = 25$$

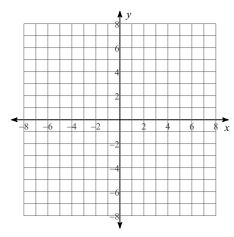


Identify the center and radius of each. Then sketch the graph.

10)
$$(x+2)^2 + (y+3)^2 = 9$$



11)
$$(x-1)^2 + y^2 = 1$$



Use the information provided to write the equation of each circle.

12) Center:
$$(0, 4)$$

Radius: $\sqrt{101}$

14) Ends of a diameter:
$$(8, -1)$$
 and $(12, 15)$

15) Center:
$$(14, -8)$$

Tangent to $y = -10$

17) Center lies in the third quadrant
Tangent to
$$x = 7$$
, $x = -15$, and $y = 4$

Answers to Activity 0211

1)
$$y = -x - 4$$

2)
$$y = -x + 1$$

3)
$$y = -\frac{1}{2}x + 5$$
 4) $y = \frac{5}{6}x - 5$

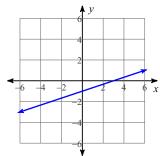
4)
$$y = \frac{5}{6}x - 5$$

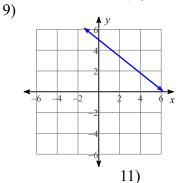
5)
$$x = -3$$

6)
$$y = -x - 2$$

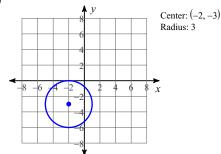
7)
$$y = 3x + 3$$

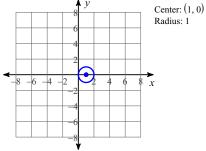
8)





10)





12)
$$x^2 + (y-4)^2 = 101$$

13)
$$(x-7)^2 + (y-13)^2 = 4$$

14)
$$(x-10)^2 + (y-7)^2 = 68$$

15)
$$(x-14)^2 + (y+8)^2 = 4$$

16)
$$(x-8)^2 + (y+2)^2 = 58$$

12)
$$x^2 + (y-4)^2 = 101$$
 13) $(x-7)^2 + (y-13)^2 = 4$ 14) $(x-10)^2 + (y-7)^2 = 68$ 15) $(x-14)^2 + (y+8)^2 = 4$ 16) $(x-8)^2 + (y+2)^2 = 58$ 17) $(x+4)^2 + (y+7)^2 = 121$