

11.3 Corrective Assignment - Circles

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

1) Center: $(3, -11)$
Radius: 5

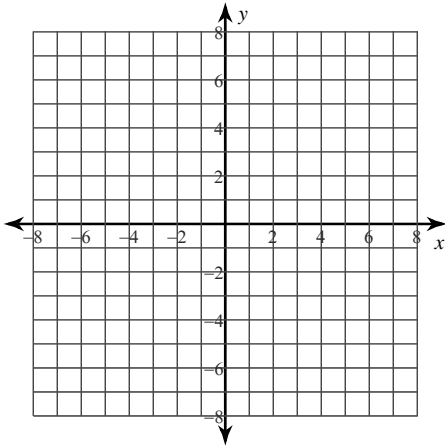
2) Center: $(0, -10)$
Radius: 8

3) Center: $(-14, -1)$
Radius: 2

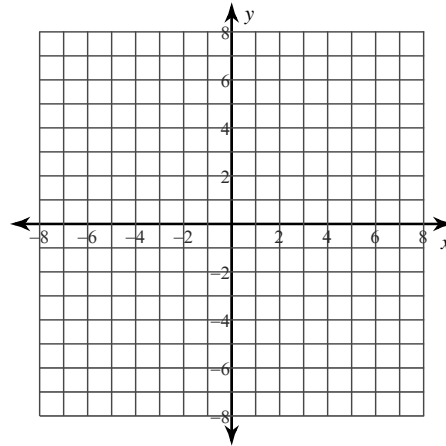
4) Center: $(-16, 7)$
Radius: 1

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

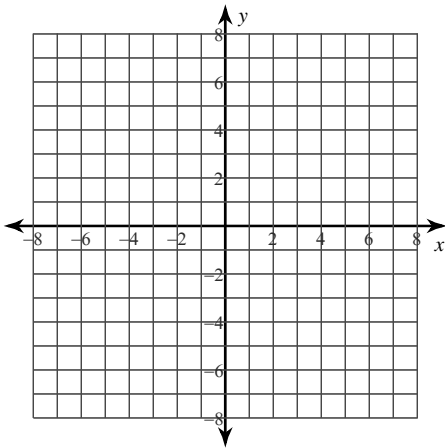
5) $(x - 1)^2 + (y - 1)^2 = 9$



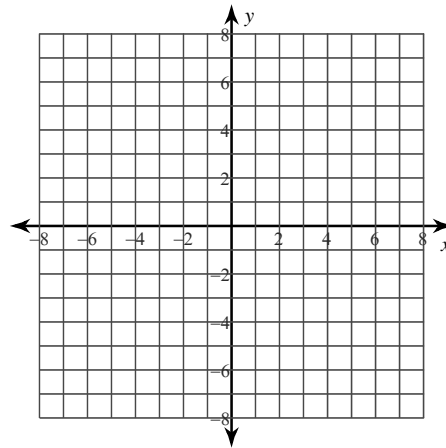
6) $(x + 2)^2 + y^2 = 4$



7) $(x + 1)^2 + (y - 3)^2 = 1$

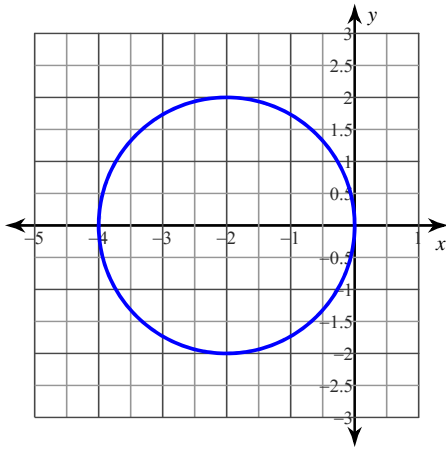


8) $(x + 2)^2 + (y - 4)^2 = 7$

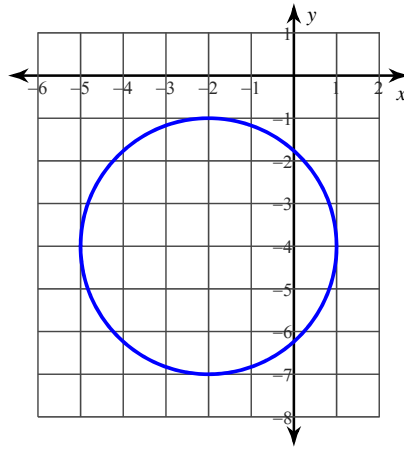


Use the information provided to write the standard form equation of each circle.

9)



10)



11) Center: $(-14, -5)$
Point on Circle: $(-10, -3)$

12) Center: $(-8, -11)$
Point on Circle: $(-9, -18)$

13) Center: $(-1, -13)$
Point on Circle: $(2, -11)$

14) Center: $(-9, -14)$
Point on Circle: $(-13, -13)$

The point below is a point on a circle whose center is at the origin. Write an equation of the line tangent to the circle at the given point.

15) $(-2, 10)$

16) $(-1, -5)$

Classify the conic section as a circle or a parabola.

17) $x = y^2 + 2$

18) $x = (y - 5)^2 + 4$

19) $x^2 + (y - 3)^2 = 6$

20) $\left(x - \frac{5}{2}\right)^2 + \left(y + \frac{7}{2}\right)^2 = 9$

11.3 Corrective Assignment - Circles

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

- 1) Center: $(3, -11)$
Radius: 5

$$(x - 3)^2 + (y + 11)^2 = 25$$

- 2) Center: $(0, -10)$
Radius: 8

$$x^2 + (y + 10)^2 = 64$$

- 3) Center: $(-14, -1)$
Radius: 2

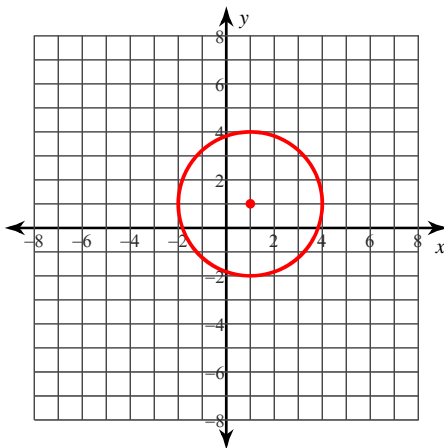
$$(x + 14)^2 + (y + 1)^2 = 4$$

- 4) Center: $(-16, 7)$
Radius: 1

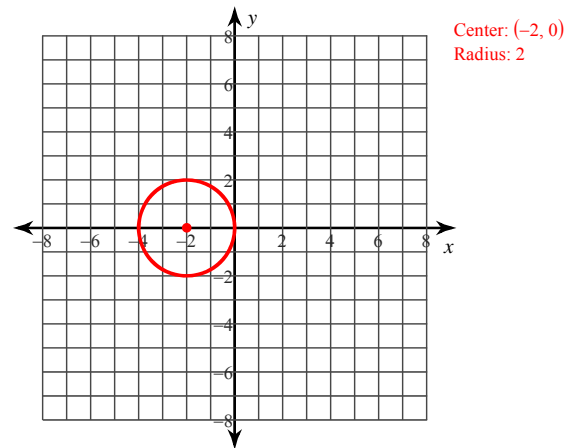
$$(x + 16)^2 + (y - 7)^2 = 1$$

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

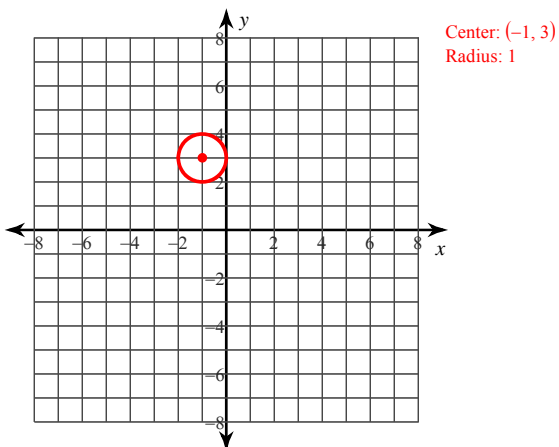
5) $(x - 1)^2 + (y - 1)^2 = 9$



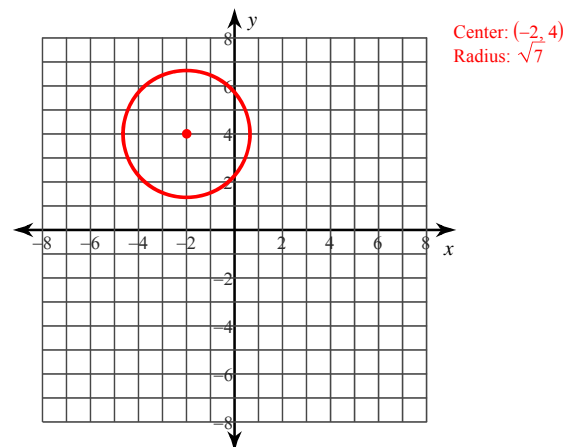
6) $(x + 2)^2 + y^2 = 4$



7) $(x + 1)^2 + (y - 3)^2 = 1$

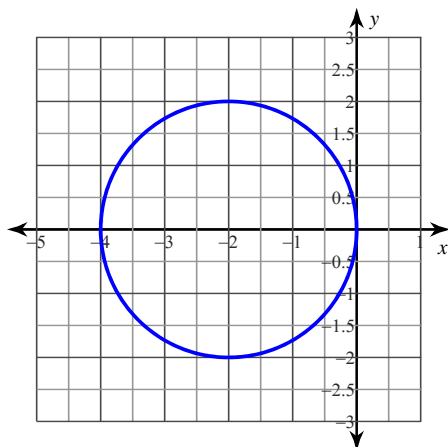


8) $(x + 2)^2 + (y - 4)^2 = 7$



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

9)



$$(x + 2)^2 + y^2 = 4$$

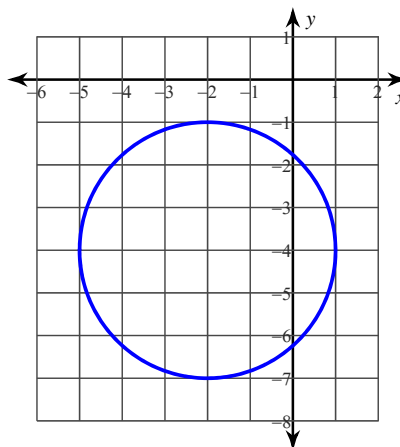
- 11) Center: $(-14, -5)$
Point on Circle: $(-10, -3)$

$$(x + 14)^2 + (y + 5)^2 = 20$$

- 13) Center: $(-1, -13)$
Point on Circle: $(2, -11)$

$$(x + 1)^2 + (y + 13)^2 = 13$$

10)



$$(x + 2)^2 + (y + 4)^2 = 9$$

- 12) Center: $(-8, -11)$
Point on Circle: $(-9, -18)$

$$(x + 8)^2 + (y + 11)^2 = 50$$

- 14) Center: $(-9, -14)$
Point on Circle: $(-13, -13)$

$$(x + 9)^2 + (y + 14)^2 = 17$$

The point below is a point on a circle whose center is at the origin. Write an equation of the line tangent to the circle at the given point.

- 15) $(-2, 10)$

$$y = \frac{1}{5}x + \frac{52}{5}$$

- 16) $(-1, -5)$

$$y = -\frac{1}{5}x - \frac{26}{5}$$

Classify the conic section as a circle or a parabola.

- 17) $x = y^2 + 2$

Parabola

- 18) $x = (y - 5)^2 + 4$

Parabola

- 19) $x^2 + (y - 3)^2 = 6$

Circle

- 20) $\left(x - \frac{5}{2}\right)^2 + \left(y + \frac{7}{2}\right)^2 = 9$

Circle