

7.1 Equation of Circles

Identify the center and radius of each.

1) $(x + 12)^2 + y^2 = 35$

2) $(x + 12)^2 + (y + 7)^2 = 25$

3) $(x - 16)^2 + (y + 6)^2 = 1$

4) $(x - 10)^2 + (y + 4)^2 = 4$

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

5) Center: $(11, 10)$
Radius: 4

6) Center: $(-2, 11)$
Radius: 4

7) Center: $(-8, -16)$
Radius: 1

8) Center: $(9, 15)$
Radius: 2

9) Center: $(-9, -3)$
Point on Circle: $(-13, 6)$

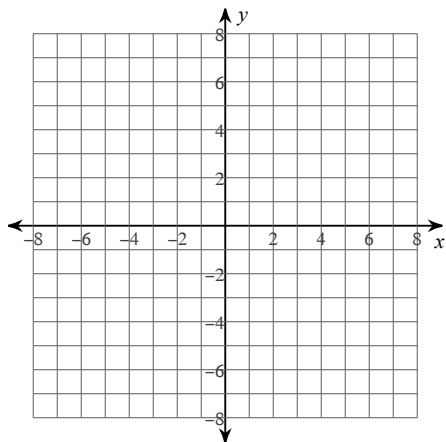
10) Center: $(9, 1)$
Point on Circle: $(9, 9)$

11) Center: $(-5, -1)$
Point on Circle: $(3, -5)$

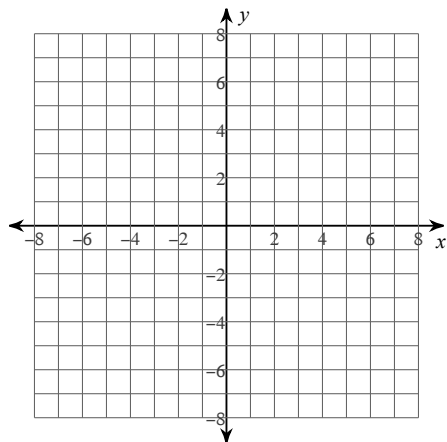
12) Center: $(-8, 0)$
Point on Circle: $(-3, 6)$

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

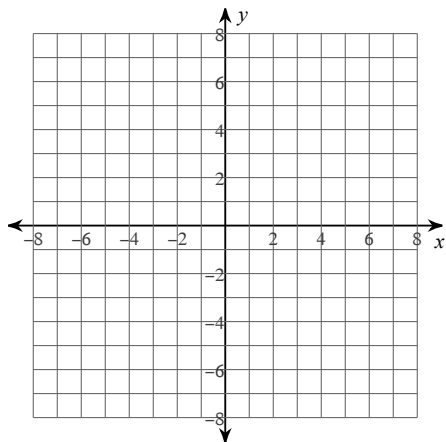
13) $(x - 3)^2 + (y + 3)^2 = 4$



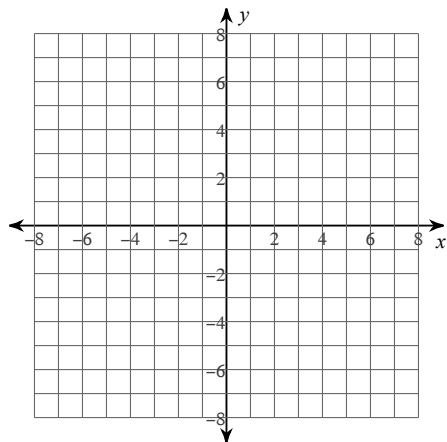
14) $(x - 3)^2 + (y + 3)^2 = 9$



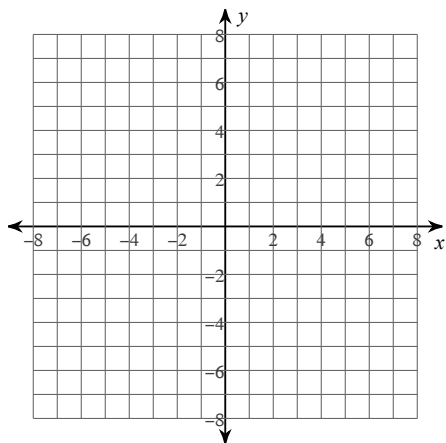
15) $(x + 4)^2 + (y - 2)^2 = 9$



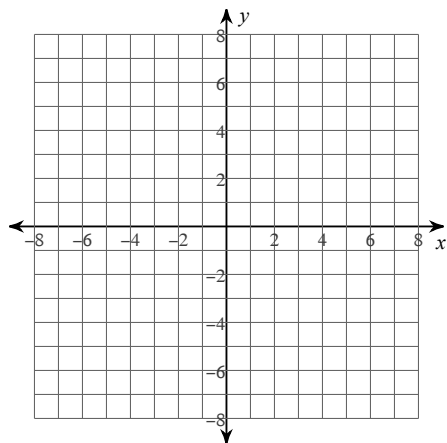
16) $(x + 3)^2 + (y - 3)^2 = 2$



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

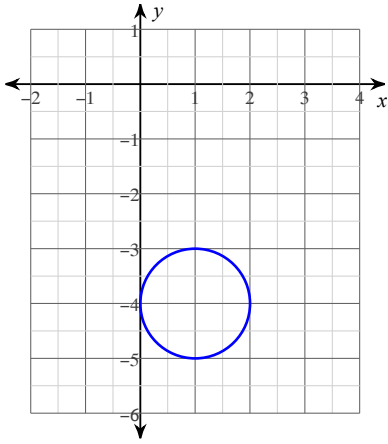


18) $x^2 + y^2 = 42$

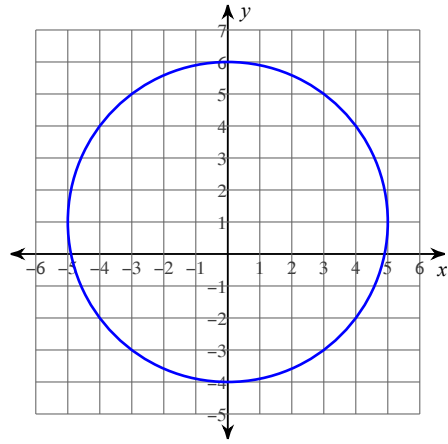


Use the information provided to write the equation of each circle.

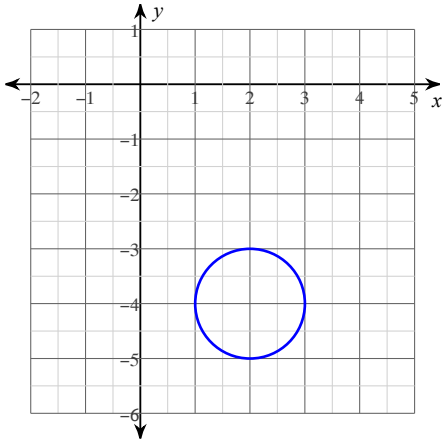
19)



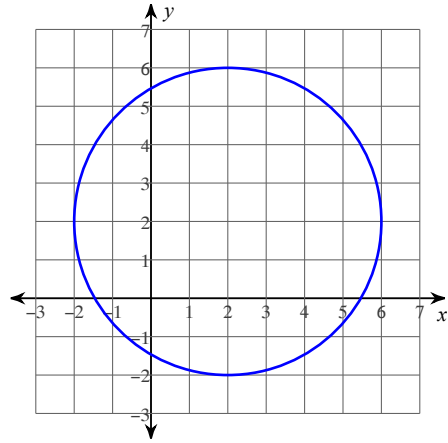
20)



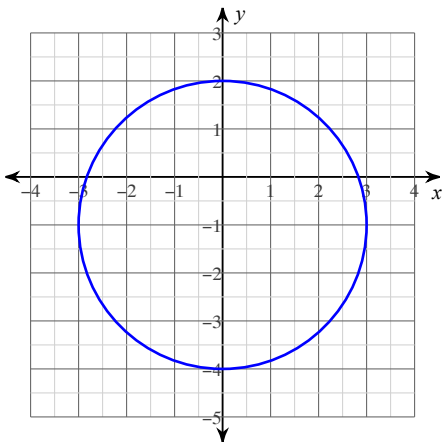
21)



22)



23)



24)

