

Graphing a Circle Given in Center-Radius Form

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

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

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

3) $(x - 1)^2 + (y + 3)^2 = 8$

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

5) $(x - 1)^2 + (y - 4)^2 = 9$

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

7) $(x + 2)^2 + (y + 1)^2 = 9$

8) $(x + 4)^2 + (y + 3)^2 = 3$

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

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

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

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

13) $(x + 4)^2 + (y - 3)^2 = 1$

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

15) $(x - 4)^2 + (y + 1)^2 = 4$

16) $(x - 1)^2 + (y + 2)^2 = 25$

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

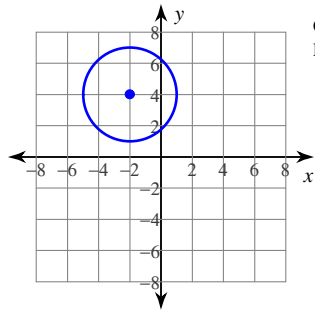
18) $(x - 4)^2 + (y + 2)^2 = 2$

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

20) $(x - 1)^2 + y^2 = 36$

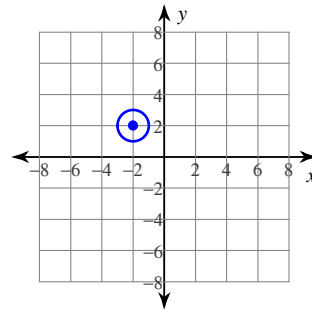
Answers to Graphing a Circle Given in Center-Radius Form

1)



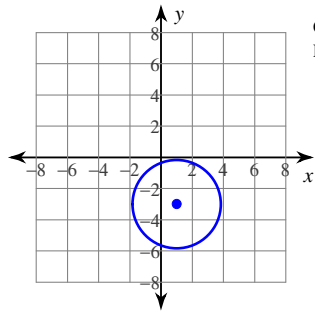
Center: $(-2, 4)$
Radius: 3

2)



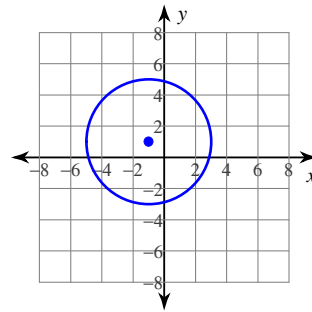
Center: $(-2, 2)$
Radius: 1

3)



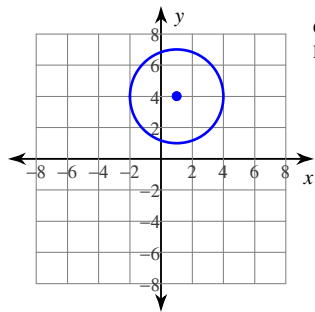
Center: $(1, -3)$
Radius: $2\sqrt{2}$

4)



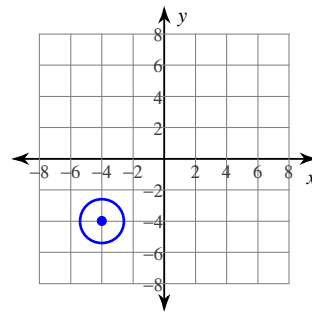
Center: $(-1, 1)$
Radius: 4

5)



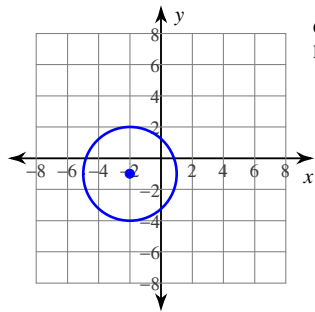
Center: $(1, 4)$
Radius: 3

6)



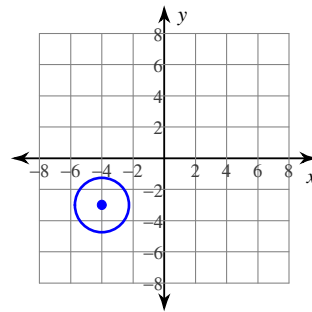
Center: $(-4, -4)$
Radius: $\sqrt{2}$

7)



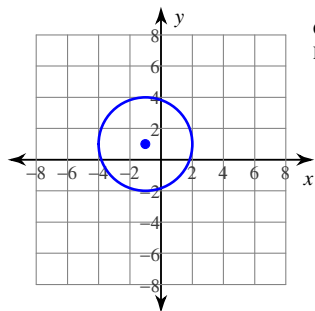
Center: $(-2, -1)$
Radius: 3

8)



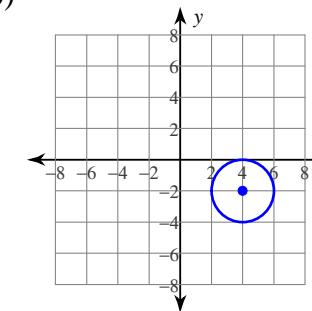
Center: $(-4, -3)$
Radius: $\sqrt{3}$

9)



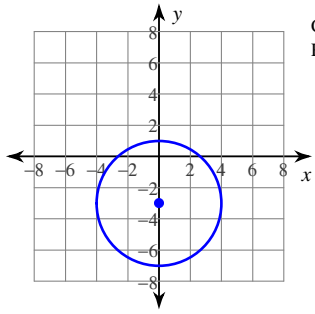
Center: $(-1, 1)$
Radius: 3

10)

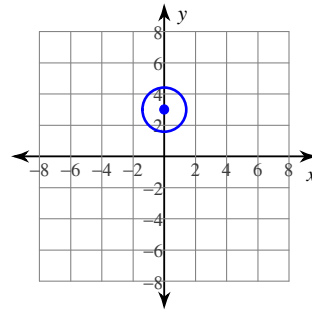


Center: $(4, -2)$
Radius: 2

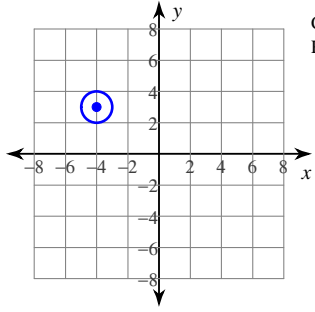
11)

Center: $(0, -3)$
Radius: 4

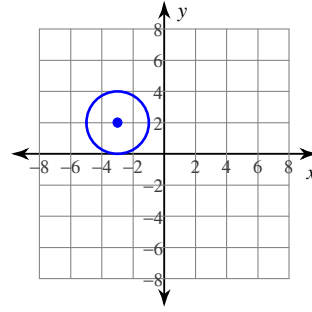
12)

Center: $(0, 3)$
Radius: $\sqrt{2}$

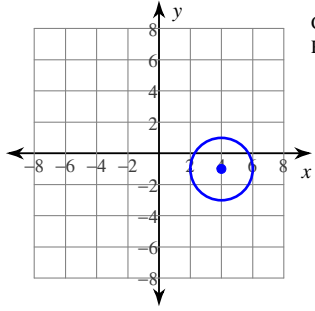
13)

Center: $(-4, 3)$
Radius: 1

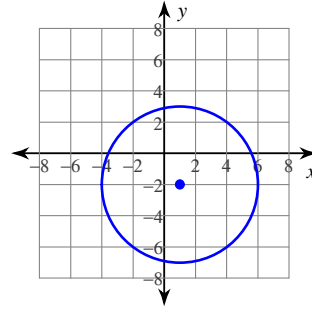
14)

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

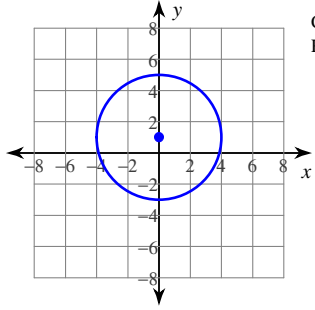
15)

Center: $(4, -1)$
Radius: 2

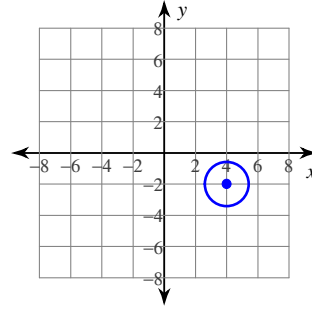
16)

Center: $(1, -2)$
Radius: 5

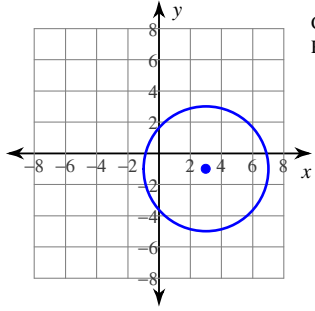
17)

Center: $(0, 1)$
Radius: 4

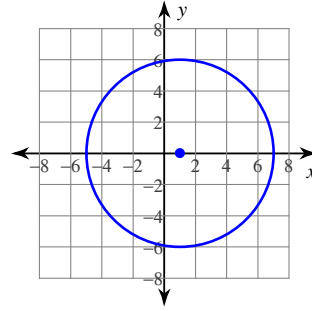
18)

Center: $(4, -2)$
Radius: $\sqrt{2}$

19)

Center: $(3, -1)$
Radius: 4

20)

Center: $(1, 0)$
Radius: 6