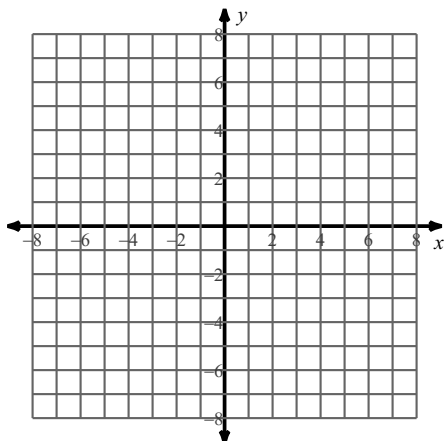


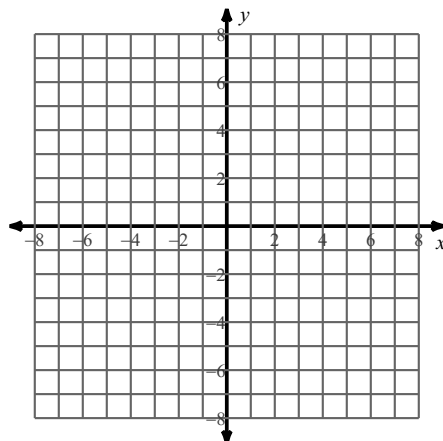
6.8 - Practice

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

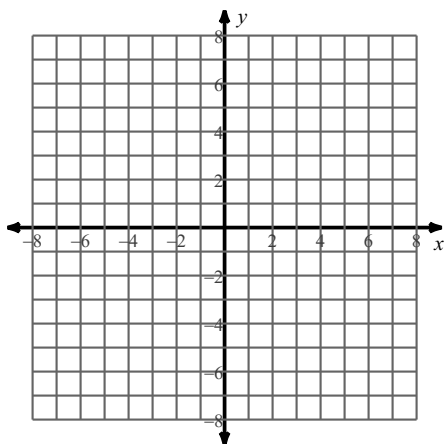
1) $(x - 2)^2 + (y - 3)^2 = 16$



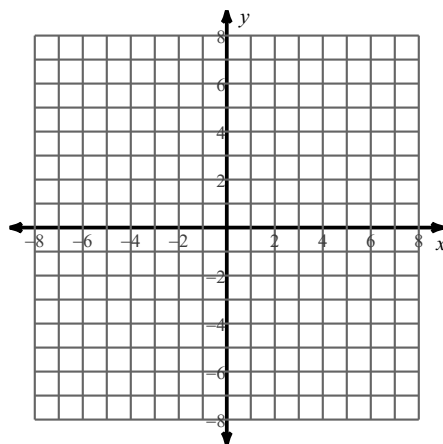
2) $(x - 1)^2 + (y + 4)^2 = 4$



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



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



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

5) Center: $(14, 12)$
Radius: 3

6) Center: $(-1, 2)$
Radius: 12

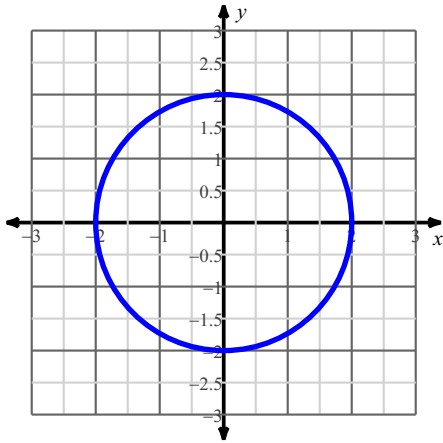
7) Center: $(7, 3)$
Area: 36π

8) Center: $(-13, -15)$
Area: 9π

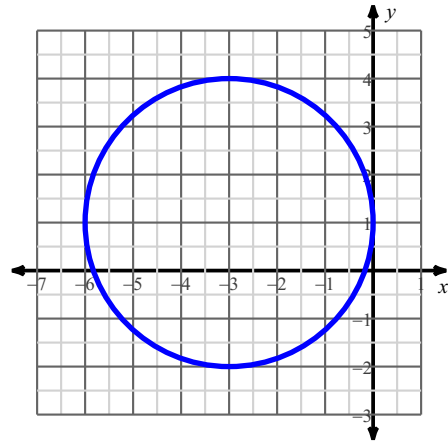
9) Center: $(-4, 15)$
Area: 16π

10) Center: $(15, -15)$
Area: 3π

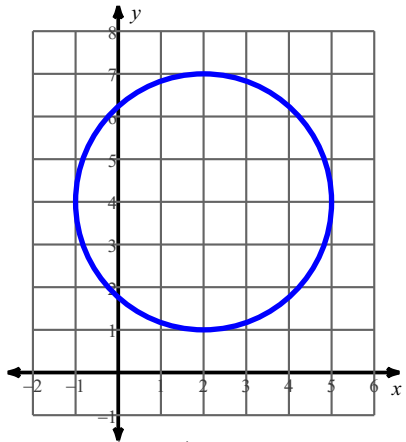
11)



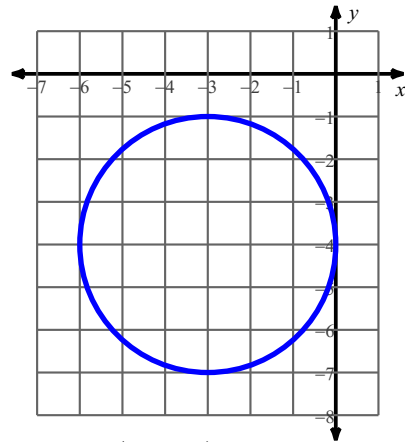
12)



13)



14)



15) Center: $(8, -5)$
Circumference: 18π

16) Center: $(6, -12)$
Circumference: 14π

17) Center: $(-7, -7)$
Circumference: 16π

18) Center: $(14, -12)$
Circumference: 8π

19) Center: $(-14, -4)$
Point on Circle: $(-18, -5)$

20) Center: $(11, 11)$
Point on Circle: $(10, 4)$

21) Center: $(-1, 7)$
Point on Circle: $(-7, -3)$

22) Center: $(17, 2)$
Point on Circle: $(16, 2)$