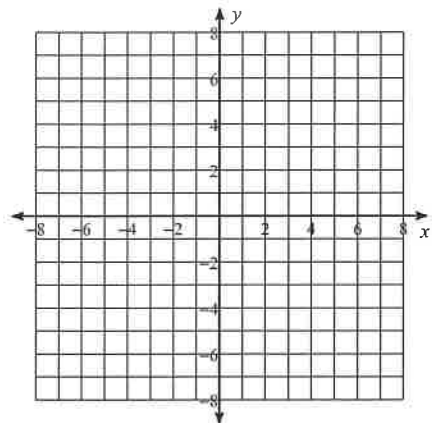


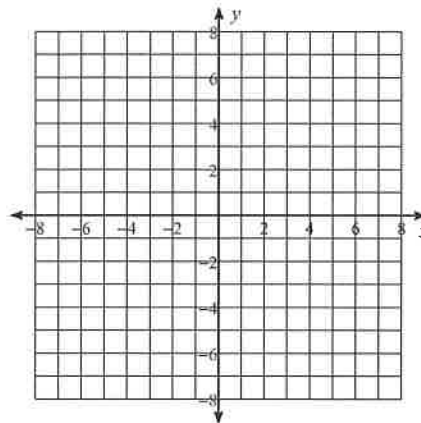
Equations of Circles - Day 2

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

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



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



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

3) Center: $(10, -10)$
 Point on Circle: $(19, -10)$

4) Center: $(1, 17)$
 Point on Circle: $(2, 16)$

5) Center: $(11, -3)$
 Point on Circle: $(14, 4)$

6) Center: $(1, 16)$
 Point on Circle: $(-2, 16)$

7) Center: $(5, -9)$
 Area: 36π

8) Center: $(-5, 2)$
 Area: 4π

9) Center: $(-11, -16)$
Circumference: 2π

10) Center: $(-12, 6)$
Circumference: 10π

11) Ends of a diameter: $(-5, 0)$ and $(-5, -2)$

12) Ends of a diameter: $(4, -18)$ and $(4, -4)$

13) Ends of a diameter: $(6, -18)$ and $(10, -4)$

14) Ends of a diameter: $(-4, -4)$ and $(-4, 18)$