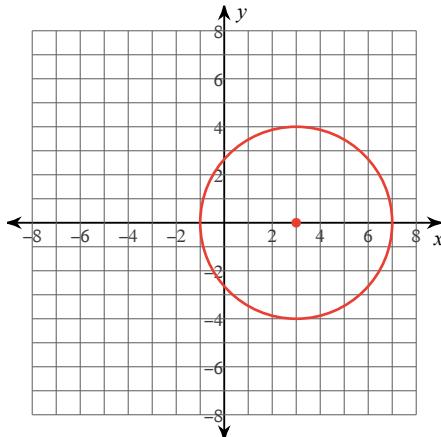


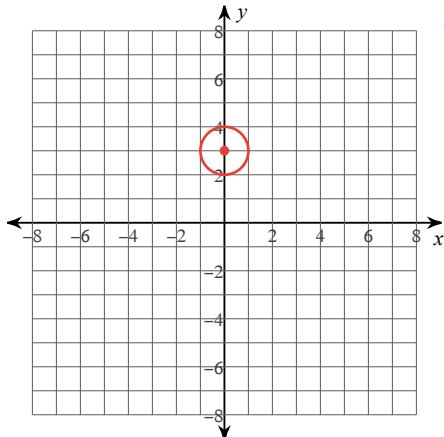
Graphing Circles - PRACTICE

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

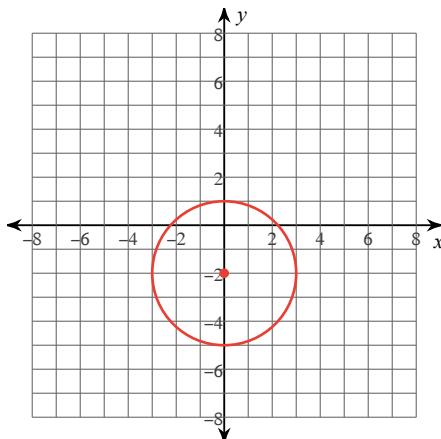
1) $(x - 3)^2 + y^2 = 16$



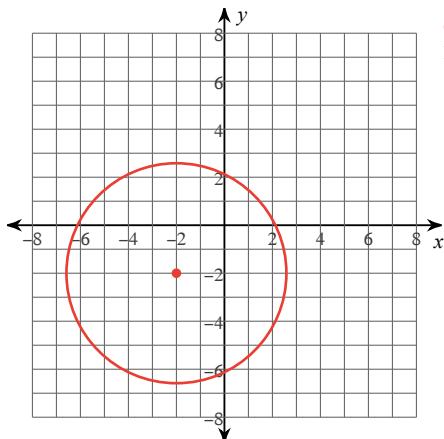
2) $x^2 + (y - 3)^2 = 1$



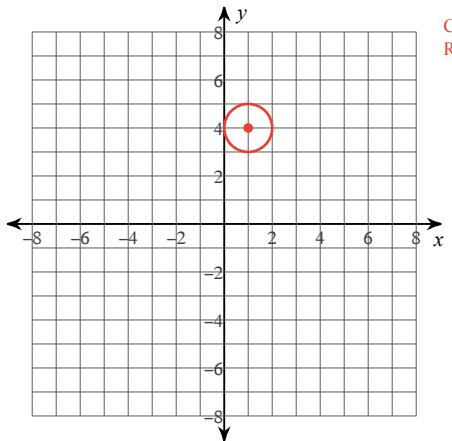
3) $x^2 + (y + 2)^2 = 9$



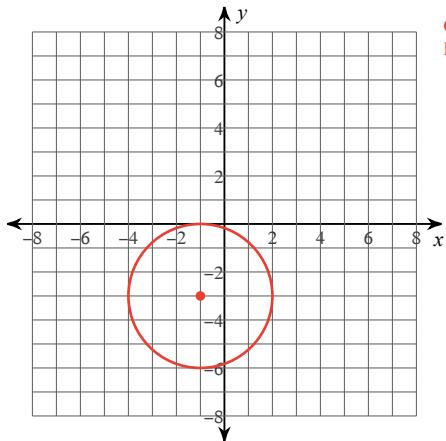
4) $(x + 2)^2 + (y + 2)^2 = 21$



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



6) $(x + 1)^2 + (y + 3)^2 = 9$



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

7) Center: $(-13, -8)$
Radius: 2

$$(x + 13)^2 + (y + 8)^2 = 4$$

8) Center: $(11, 3)$
Radius: 4

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

9) Center: $(2, 3)$
Radius: 7

$$(x - 2)^2 + (y - 3)^2 = 49$$

10) Center: $(-8, -7)$
Radius: 8

$$(x + 8)^2 + (y + 7)^2 = 64$$

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

$$(x + 2)^2 + (y - 11)^2 = 36$$

12) Center: $(15, -2)$
Radius: 3

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

13) Center: $(-8, -3)$
Radius: 6

$$(x + 8)^2 + (y + 3)^2 = 36$$

14) Center: $(16, 10)$
Radius: 1

$$(x - 16)^2 + (y - 10)^2 = 1$$