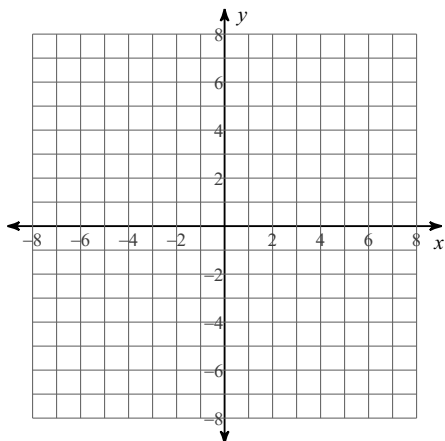


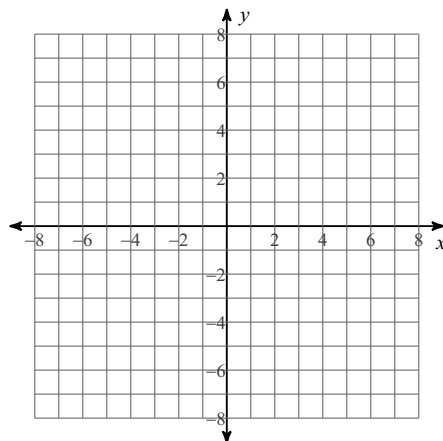
Day 7 Practice - Equations of Circles

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

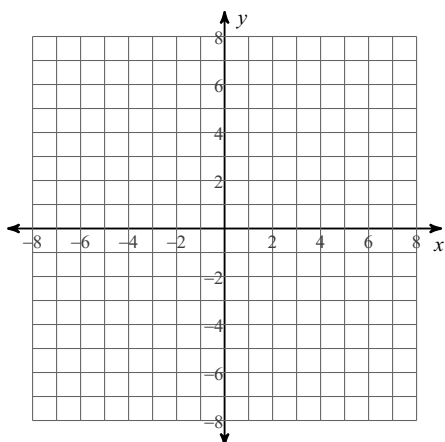
1) $x^2 + y^2 = 25$



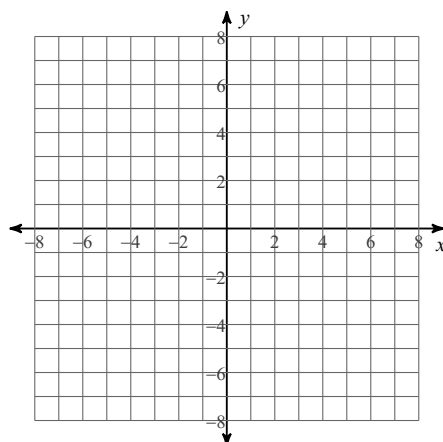
2) $x^2 + y^2 = 9$



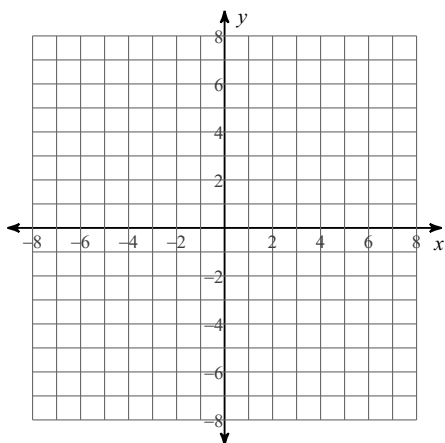
3) $(x + 1)^2 + (y - 2)^2 = 5$



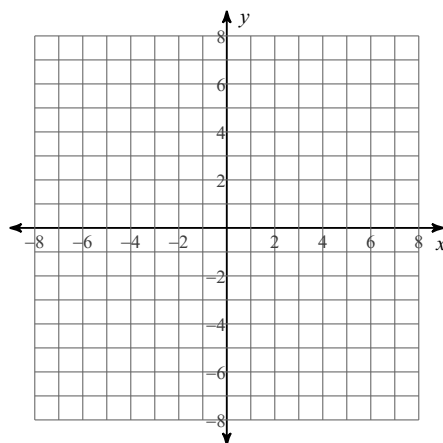
4) $(x - 2)^2 + (y - 4)^2 = 9$



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



6) $(x + 1)^2 + (y - 1)^2 = 21$



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

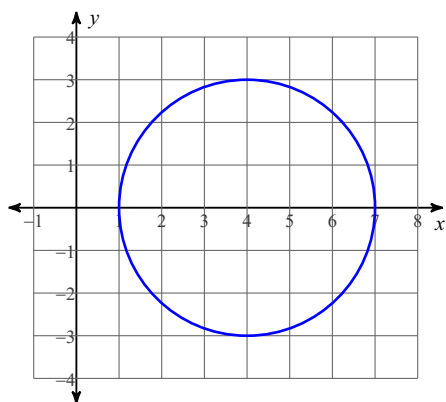
7) Center: $(-3, -10)$
Radius: 7

8) Center: $(-5, -8)$
Radius: 10

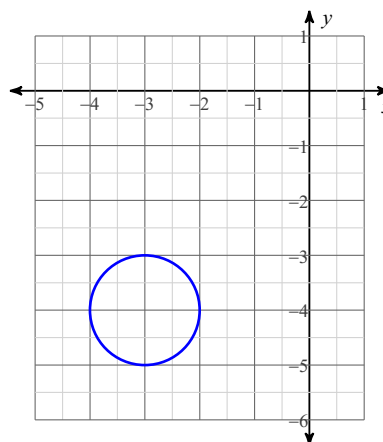
9) Center: $(5, 2)$
Radius: 14

10) Center: $(12, -16)$
Radius: 2

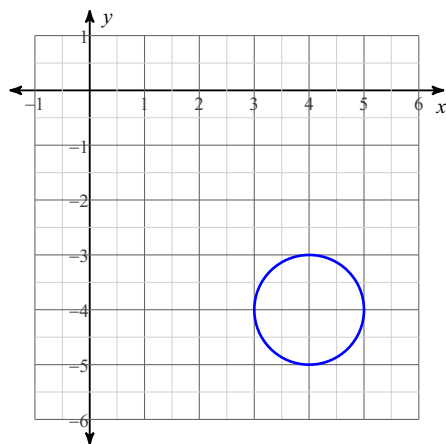
11)



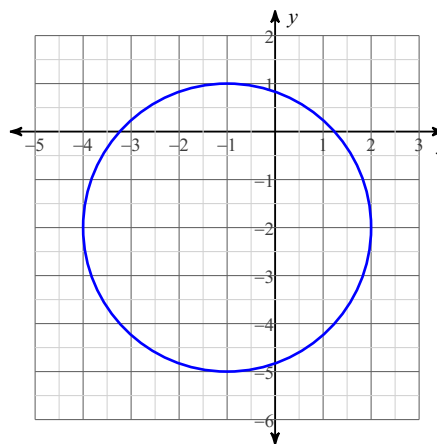
12)



13)



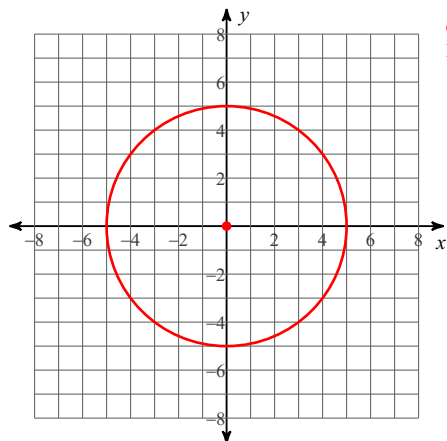
14)



Day 7 Practice - Equations of Circles

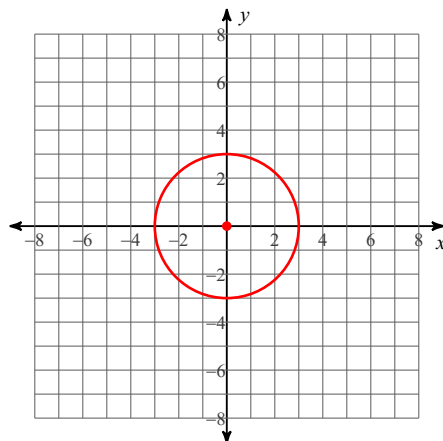
Identify the center and radius of each. Then sketch the graph.

1) $x^2 + y^2 = 25$



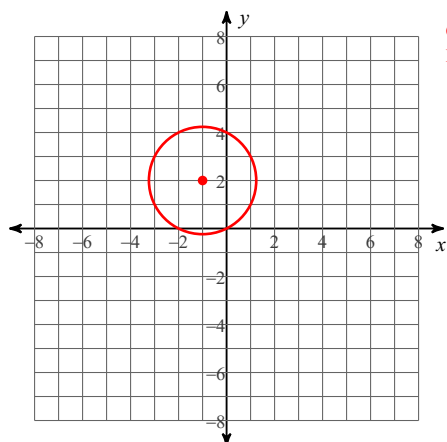
Center: (0, 0)
Radius: 5

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



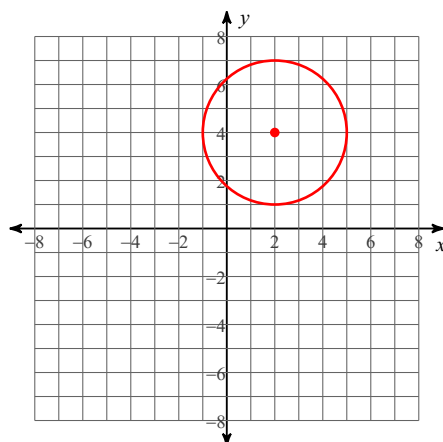
Center: (0, 0)
Radius: 3

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



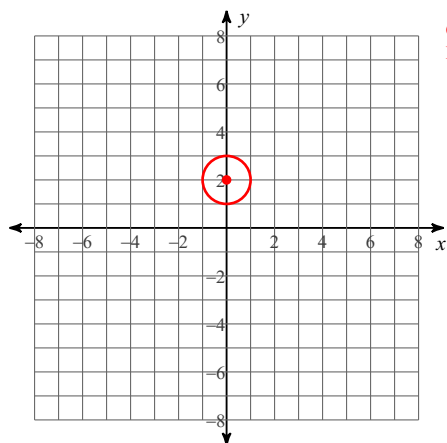
Center: (-1, 2)
Radius: $\sqrt{5}$

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



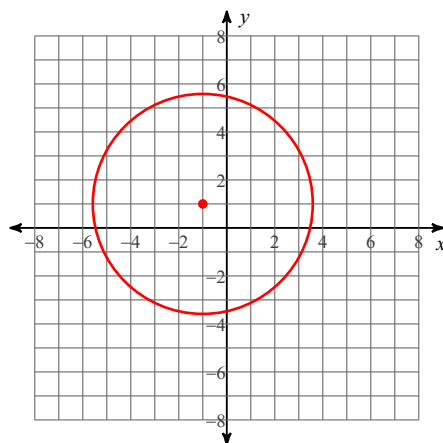
Center: (2, 4)
Radius: 3

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



Center: (0, 2)
Radius: 1

6) $(x + 1)^2 + (y - 1)^2 = 21$



Center: (-1, 1)
Radius: $\sqrt{21}$

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

- 7) Center: $(-3, -10)$
Radius: 7

$$(x + 3)^2 + (y + 10)^2 = 49$$

- 8) Center: $(-5, -8)$
Radius: 10

$$(x + 5)^2 + (y + 8)^2 = 100$$

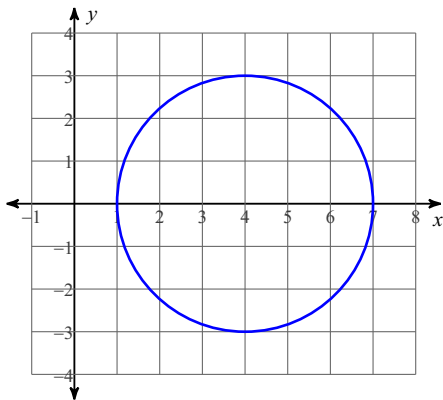
- 9) Center: $(5, 2)$
Radius: 14

$$(x - 5)^2 + (y - 2)^2 = 196$$

- 10) Center: $(12, -16)$
Radius: 2

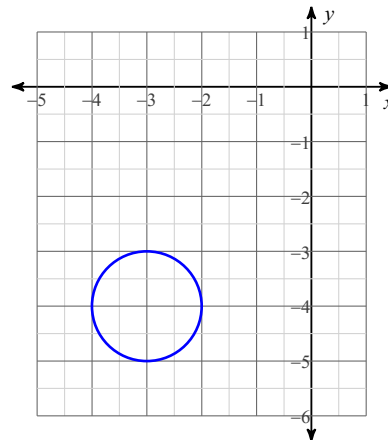
$$(x - 12)^2 + (y + 16)^2 = 4$$

11)



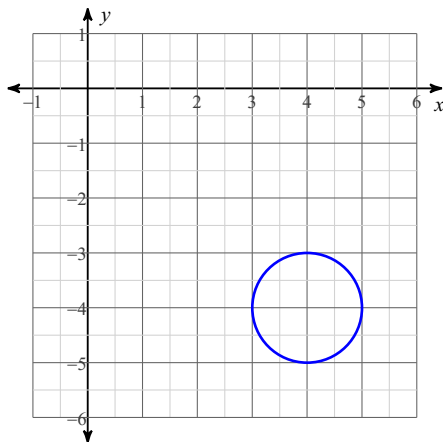
$$(x - 4)^2 + y^2 = 9$$

12)



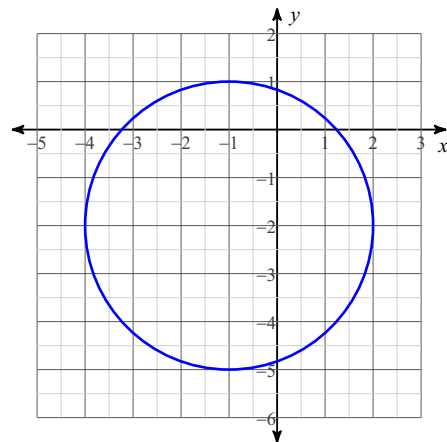
$$(x + 3)^2 + (y + 4)^2 = 1$$

13)



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

14)



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