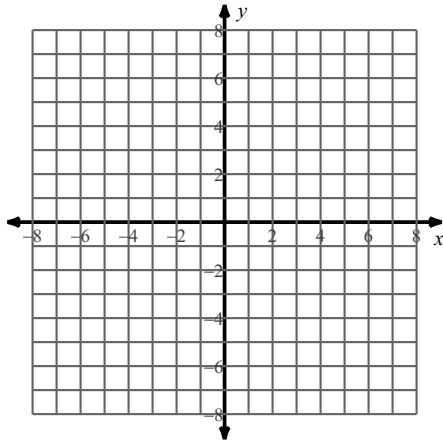


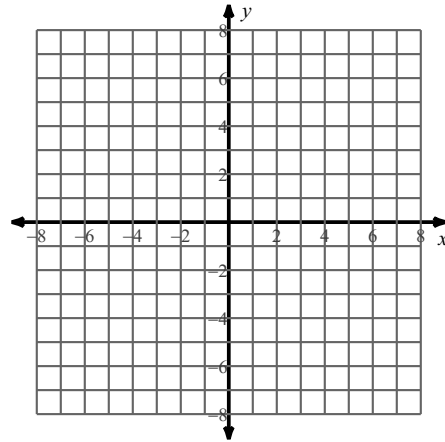
7.2 - Practice

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

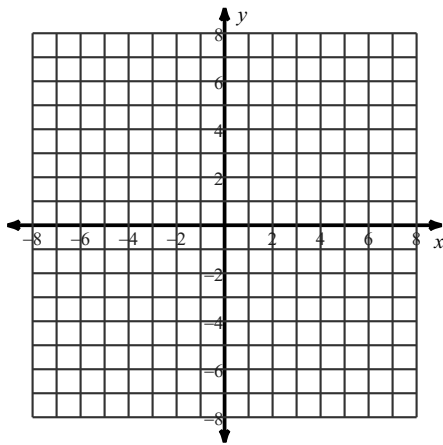
1)  $(x - 2)^2 + (y - 3)^2 = 16$



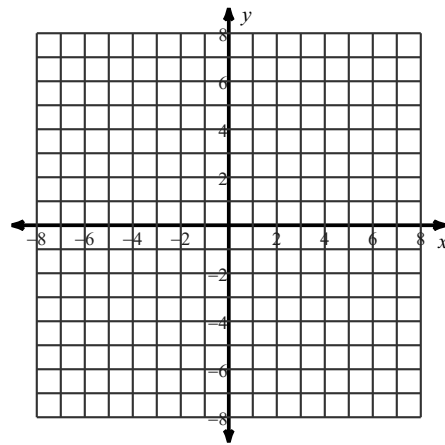
2)  $(x - 1)^2 + (y + 4)^2 = 4$



3)  $(x - 2)^2 + y^2 = 25$



4)  $(x - 3)^2 + (y - 4)^2 = 9$



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

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

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

7) Center:  $(8, -5)$   
Circumference:  $18\pi$

8) Center:  $(6, -12)$   
Circumference:  $14\pi$

9) Center:  $(-7, -7)$   
Circumference:  $16\pi$

10) Center:  $(14, -12)$   
Circumference:  $8\pi$

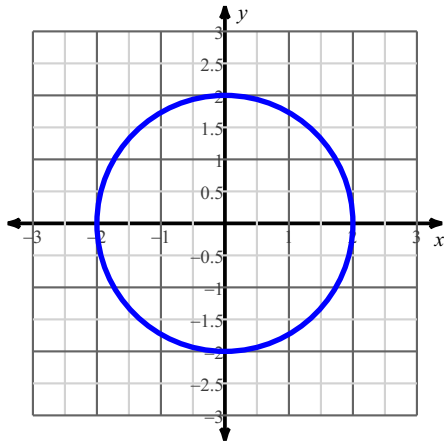
11) Center:  $(7, 3)$   
Area:  $36\pi$

12) Center:  $(-13, -15)$   
Area:  $9\pi$

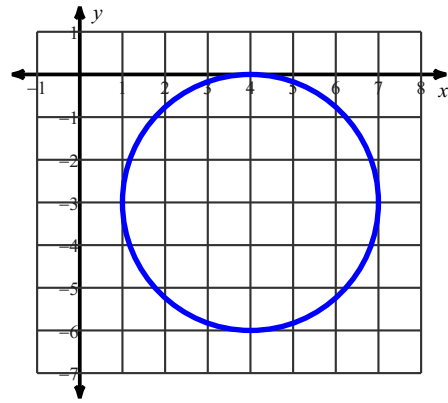
13) Center:  $(-11, -5)$   
Area:  $49\pi$

14) Center:  $(15, -15)$   
Area:  $3\pi$

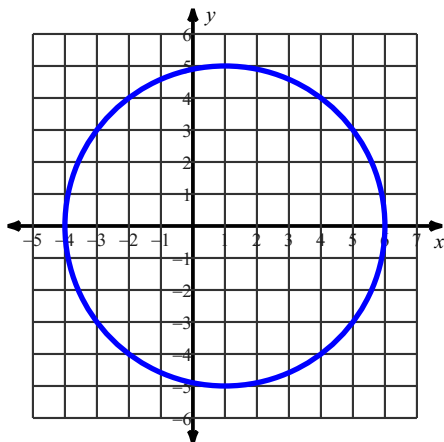
15)



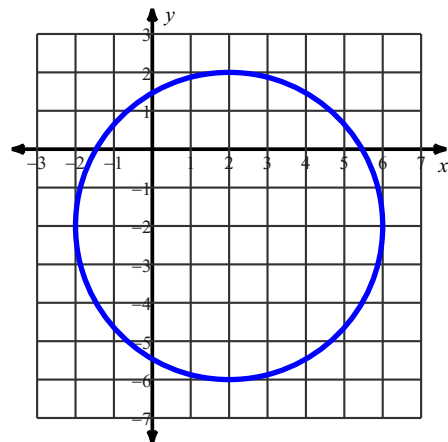
16)



17)



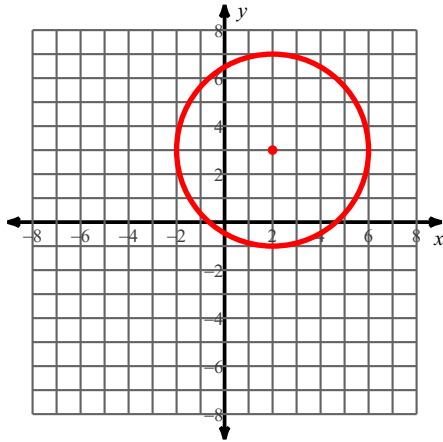
18)



7.2 - Practice

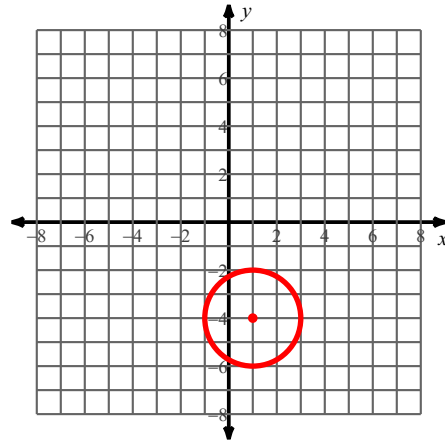
Identify the center and radius of each. Then sketch the graph.

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



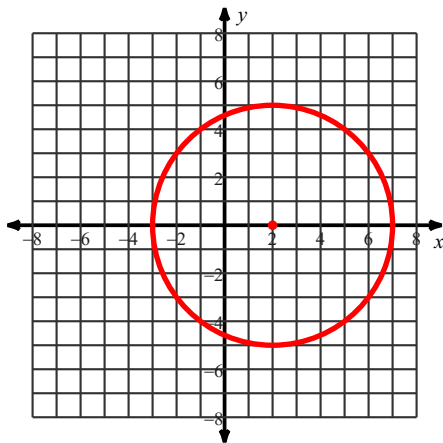
Center: (2, 3)  
Radius: 4

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



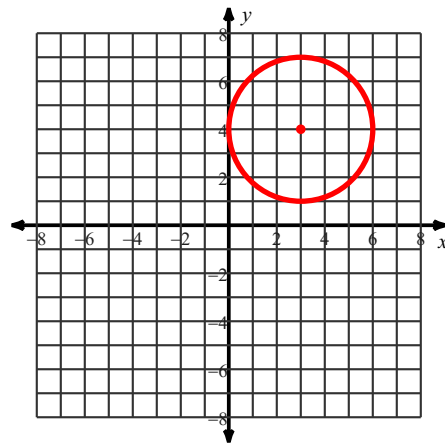
Center: (1, -4)  
Radius: 2

3)  $(x - 2)^2 + y^2 = 25$



Center: (2, 0)  
Radius: 5

4)  $(x - 3)^2 + (y - 4)^2 = 9$



Center: (3, 4)  
Radius: 3

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

5) Center: (-12, -6)  
Radius: 2

$(x + 12)^2 + (y + 6)^2 = 4$

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

$(x + 1)^2 + (y - 2)^2 = 144$

7) Center: (8, -5)  
Circumference:  $18\pi$

$(x - 8)^2 + (y + 5)^2 = 81$

8) Center: (6, -12)  
Circumference:  $14\pi$

$(x - 6)^2 + (y + 12)^2 = 49$

- 9) Center:  $(-7, -7)$   
Circumference:  $16\pi$

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

- 10) Center:  $(14, -12)$   
Circumference:  $8\pi$

$$(x - 14)^2 + (y + 12)^2 = 16$$

- 11) Center:  $(7, 3)$   
Area:  $36\pi$

$$(x - 7)^2 + (y - 3)^2 = 36$$

- 12) Center:  $(-13, -15)$   
Area:  $9\pi$

$$(x + 13)^2 + (y + 15)^2 = 9$$

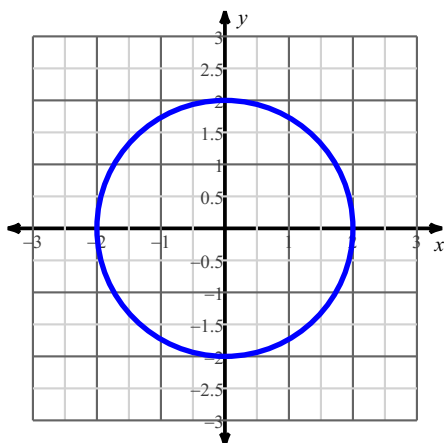
- 13) Center:  $(-11, -5)$   
Area:  $49\pi$

$$(x + 11)^2 + (y + 5)^2 = 49$$

- 14) Center:  $(15, -15)$   
Area:  $3\pi$

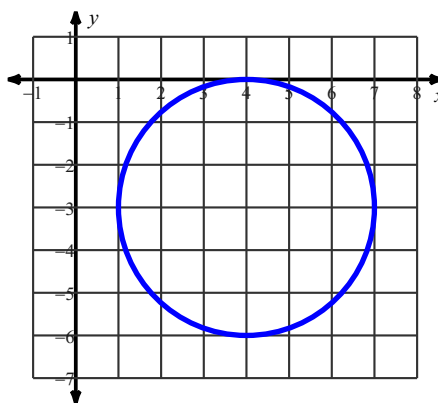
$$(x - 15)^2 + (y + 15)^2 = 3$$

15)



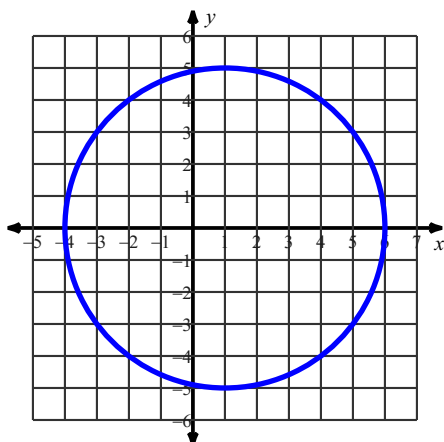
$$x^2 + y^2 = 4$$

16)



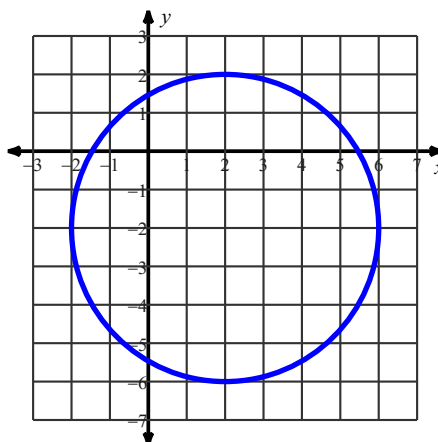
$$(x - 4)^2 + (y + 3)^2 = 9$$

17)



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

18)



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