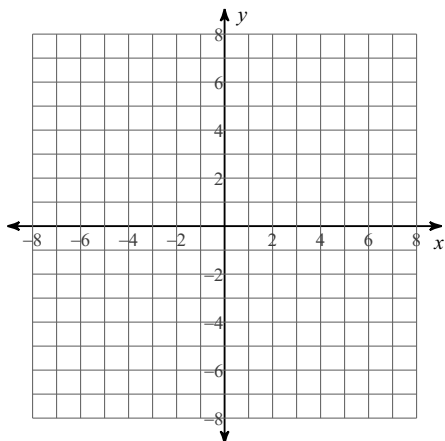


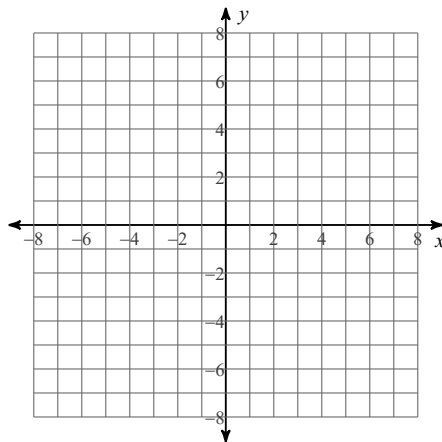
Writing Circles

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

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



2) $x^2 + y^2 - 4x + 8y + 16 = 0$



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

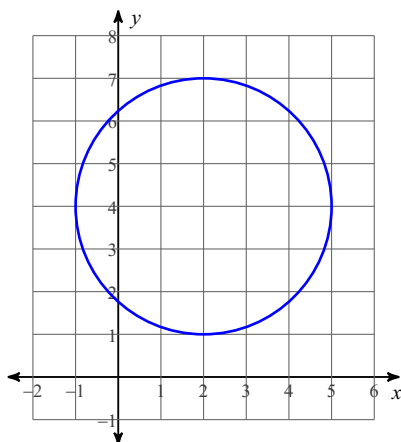
- 3) Center: $(7, -9)$
Point on Circle: $(0, -9)$

- 4) Center: $(1, 6)$
Point on Circle: $(5, 15)$

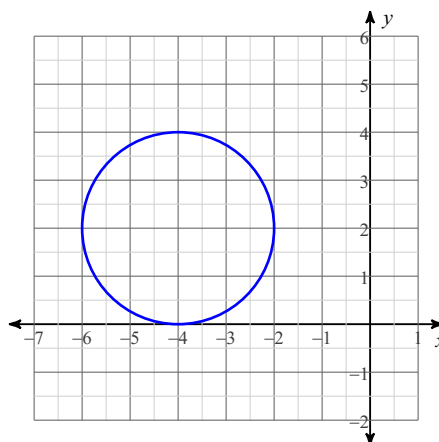
- 5) Center: $(-10, 9)$
Point on Circle: $(-16, 11)$

- 6) Center: $(-3, -2)$
Point on Circle: $(-1, 1)$

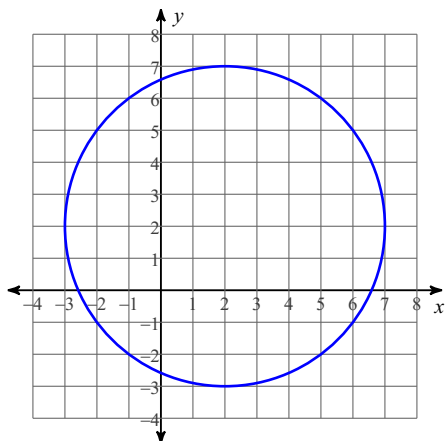
7)



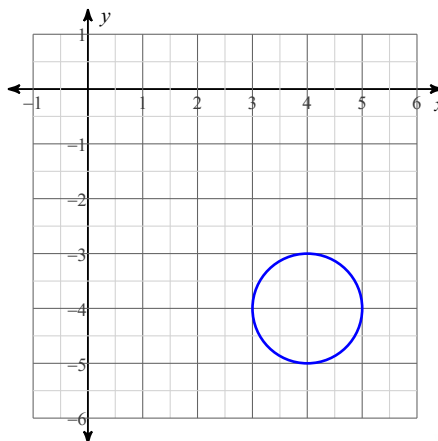
8)



9)



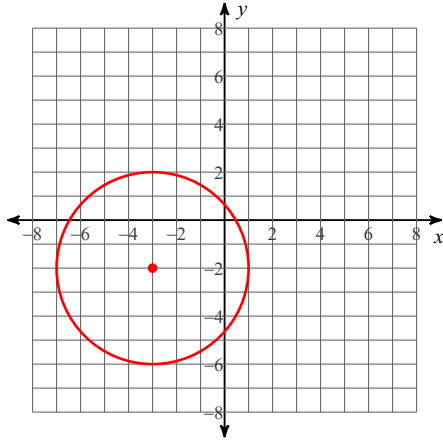
10)



Writing Circles

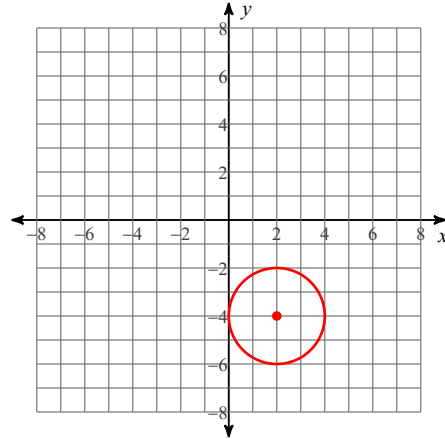
Identify the center and radius of each. Then sketch the graph.

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



Center: (-3, -2)
Radius: 4

2) $x^2 + y^2 - 4x + 8y + 16 = 0$



Center: (2, -4)
Radius: 2

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

3) Center: (7, -9)
Point on Circle: (0, -9)

$(x - 7)^2 + (y + 9)^2 = 49$

4) Center: (1, 6)
Point on Circle: (5, 15)

$(x - 1)^2 + (y - 6)^2 = 97$

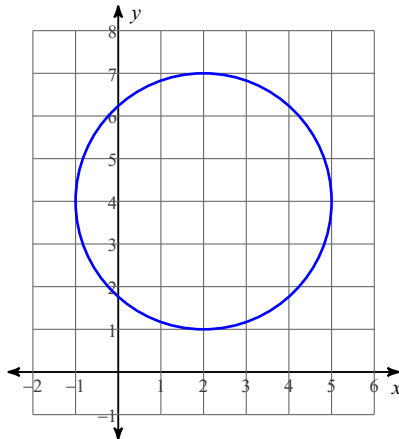
5) Center: (-10, 9)
Point on Circle: (-16, 11)

$(x + 10)^2 + (y - 9)^2 = 406$

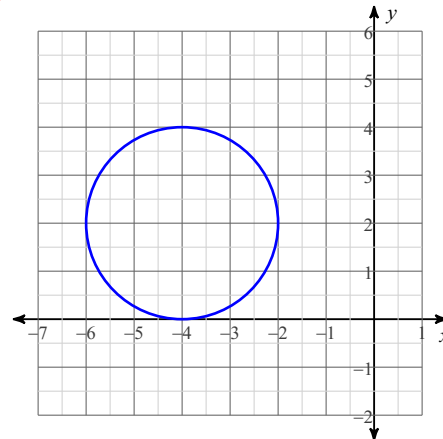
6) Center: (-3, -2)
Point on Circle: (-1, 1)

$(x + 3)^2 + (y + 2)^2 = 13$

7)

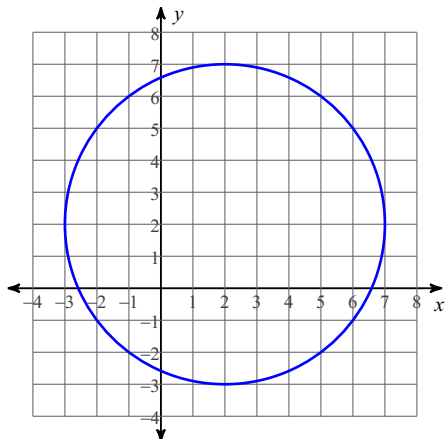


$(x - 2)^2 + (y - 5)^2 = 25$

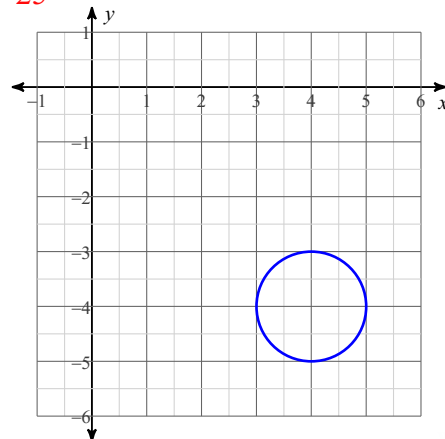


$(x + 4)^2 + (y - 3)^2 = 16$

9)



$(x - 2)^2 + (y - 5)^2 = 25$



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