

1. The standard equation of a circle with center (h, k) and radius $= r$ is

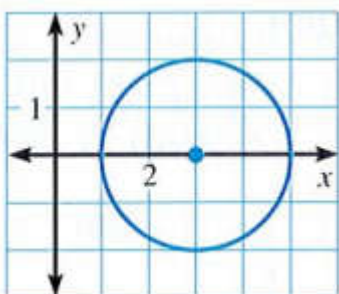
Match each graph with its equation.

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

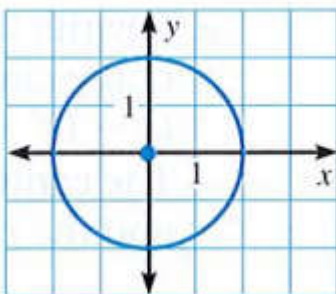
B. $(x - 3)^2 + y^2 = 4$

C. $(x + 3)^2 + y^2 = 4$

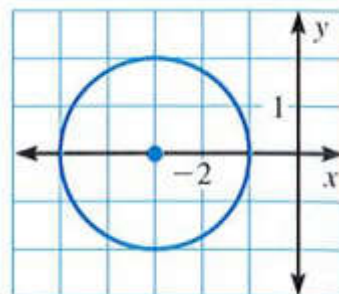
2.



3.



4.



Give the radius and coordinates of the center of the circle with the given equation. Then graph the circle.

5. $x^2 + y^2 = 1$

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

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

radius = _____

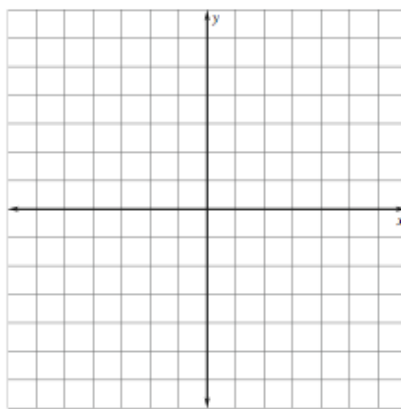
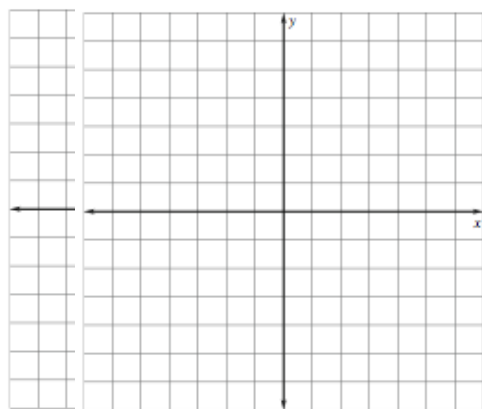
radius = _____

radius = _____

center: _____

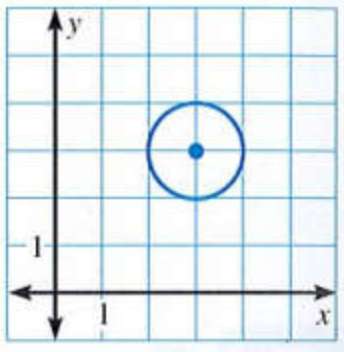
center: _____

center: _____



Give the radius and the coordinates of the center of the circle. Then write the standard equation of the circle.

8.

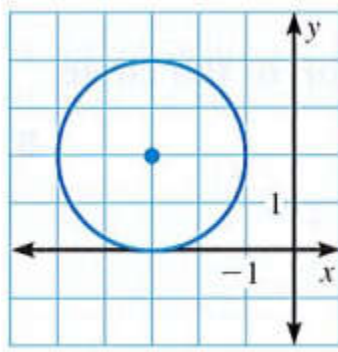


radius = _____

center: _____

equation: _____

9.

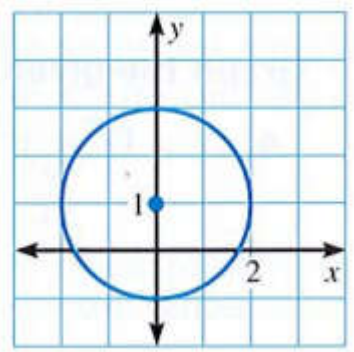


radius = _____

center: _____

equation: _____

10.



radius = _____

center: _____

equation: _____

Write the standard equation of a circle with the given center and radius.

11. center: $(0, 0)$ and radius = 10

12. center: $(7, 0)$ and radius = 4

13. center: $(-1, -3)$ and radius = 6

14. center: $(-3, 5)$ and radius = 3