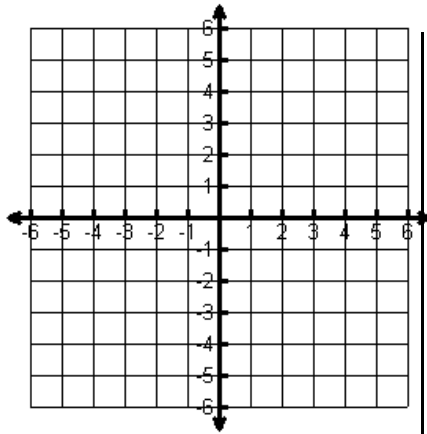


Graph the following circles. State the center and radius.

1. $x^2 + y^2 = 9$

Center: _____

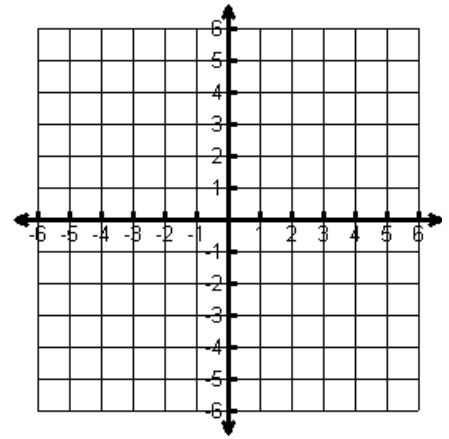
Radius: _____



2. $x^2 + y^2 = 20$

Center: _____

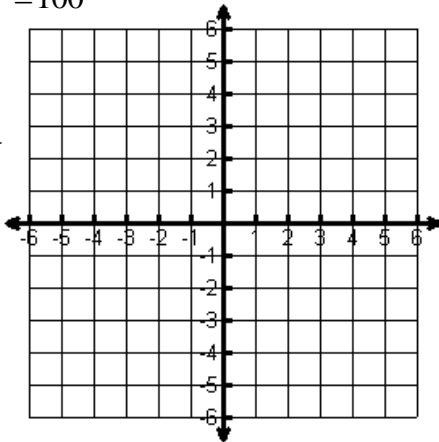
Radius: _____



3. $4x^2 + 4y^2 = 100$

Center: _____

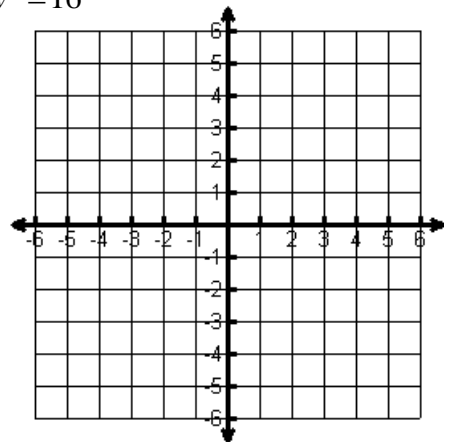
Radius: _____



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

Center: _____

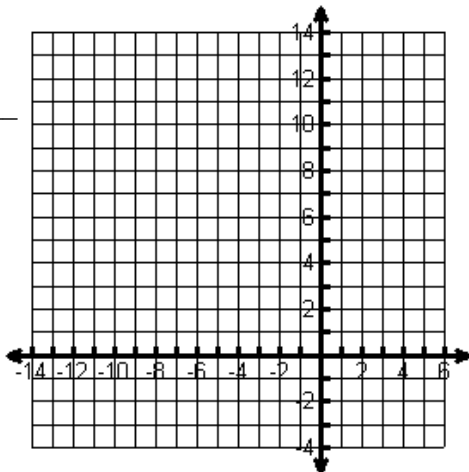
Radius: _____



5. $(x+4)^2 + (y-6)^2 = 64$

Center: _____

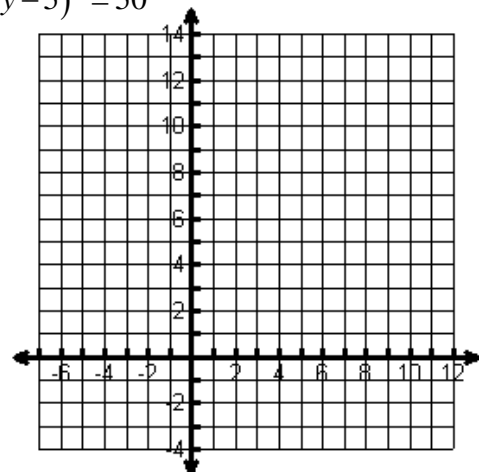
Radius: _____



6. $(x-3)^2 + (y-5)^2 = 50$

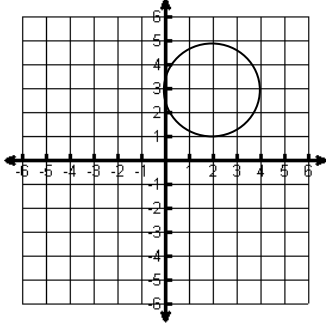
Center: _____

Radius: _____



Write the equation of the circle in standard form.

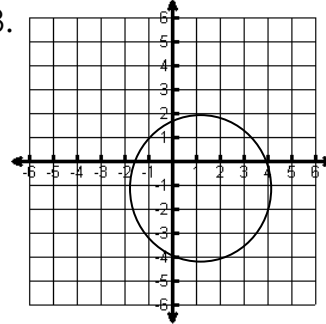
7.



C =

r =

8.



C =

r =

Write the equation of a circle with the given radius and whose center is the origin.

9. $r = 13$

10. $r = \sqrt{8}$

11. $r = 3\sqrt{5}$

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

12. $r = 6$, Center at $(3, -1)$

13. $r = 2\sqrt{6}$, Center at $(-5, 2)$

Write the equation of the circle given a point on the circle and its center.

14. Point $(-2, -2)$, Center $(-5, -8)$

15. Point $(-3, 1)$, Center $(5, 4)$

Write the equation of the circle given the endpoints of a diameter of the circle.

16. $(-3, 5)$ and $(5, -1)$

17. $(8, 3)$ and $(2, 5)$