

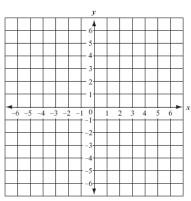
Find the center and radius of the given circle and write the equation of the circle.

Identify the center and radius of the following circles and then graph them.

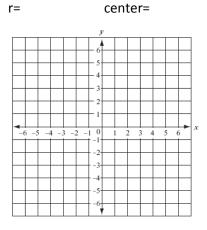
5.
$$(x + 4)^2 + (y - 6)^2 = 1$$







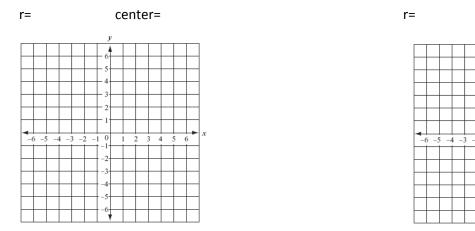
6.
$$(x+3)^2 + (y-3)^2 = 16$$

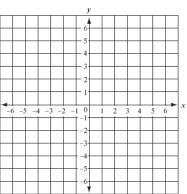


Identify the center and radius of the following circles and then graph them.

7.
$$(x + 4)^2 + (y + 1)^2 = 3^2$$

8. $(x-4)^2 + (y+1)^2 = 16$





center=

9. A circle has a diameter with endpoints (4, 9) and (-2, 1). Identify the center and length of the radius. Then write an equation for the circle.

10. A circle has a center at (2,4) and a point on the circle is (14,9). Write an equation for this circle.

11. Prove or disprove that point (8,4) lies on a circle that is centered at (2,-4) and a contains the point (10,-10).

12. Prove or disprove that point (13,8) lies on a circle that is centered at (1,3) and contains the point (1,16).