

Equations of Circles

Write the equation of each circle.

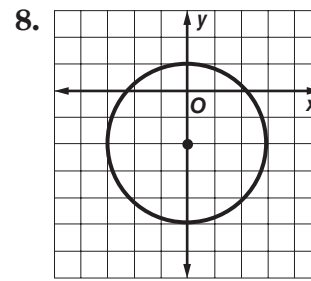
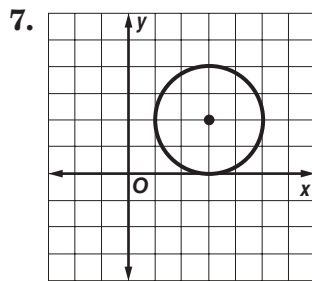
1. center at origin, radius 6

2. center at $(0, 0)$, radius 2

3. center at $(4, 3)$, radius 9

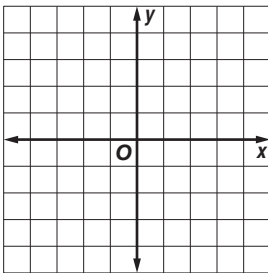
4. center at $(7, 1)$, diameter 24

5. center at $(-4, -1)$, passes through $(-2, 3)$ 6. center at $(5, -2)$, passes through $(4, 0)$



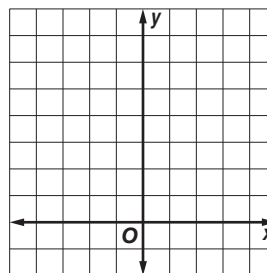
For each circle with the given equation, state the coordinates of the center and the measure of the radius. Then graph the equation.

9. $x^2 + y^2 = 16$



$r =$

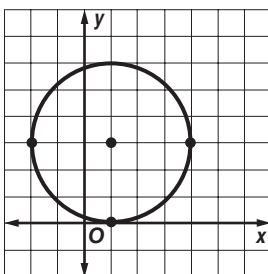
10. $(x - 1)^2 + (y - 4)^2 = 9$



$r =$

Write an equation of a circle that contains each set of points. Then graph the circle.

11. $A(-2, 3)$, $B(1, 0)$, $C(4, 3)$



12. $F(3, 0)$, $G(5, -2)$, $H(1, -2)$

