

10-8 Skills Practice

Equations of Circles

Write the equation of each circle.

1. center at origin, radius 6

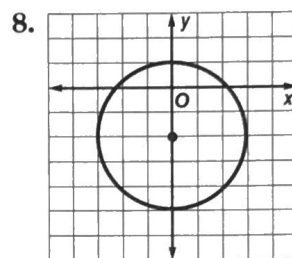
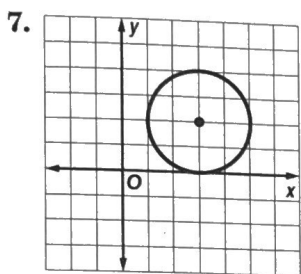
2. center at (0, 0), radius 2

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

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

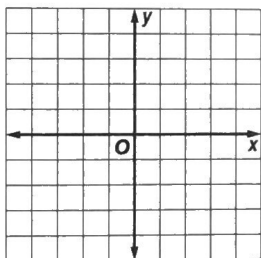
5. center at (-4, -1), passes through (-2, 3)

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

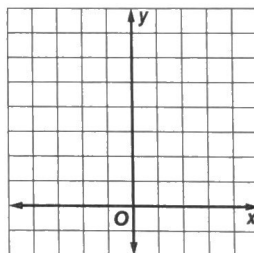


For each circle with the given equation, state the coordinates of the center and the measure of the radius. Then graph the equation.

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

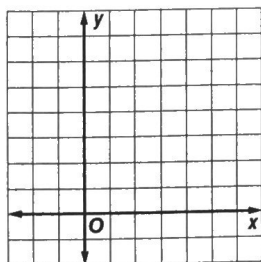


10. $(x - 1)^2 + (y - 4)^2 = 9$



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

