NAME _____ DATE _____ PERIOD _____

Equations of Circles Skills Practice

Write the equation of each circle.

1. center at origin, radius 6

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

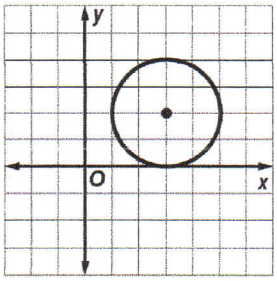
3. center at (4, 3), radius 9

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

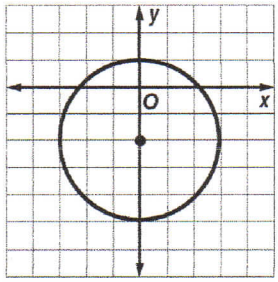
5. center at (–4, –1), passes through (–2, 3)

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

7.

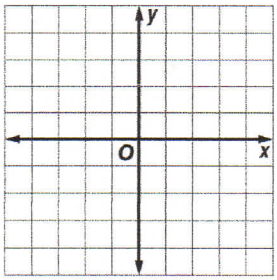


8.

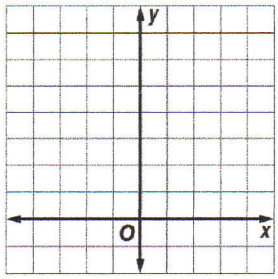


For each circle with the given equation, state the coordinates of the center and the measure of the radius. Then graph the equation.

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

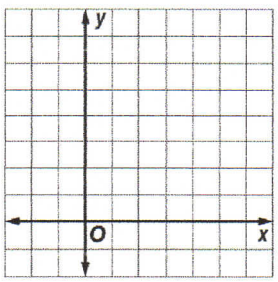


10. $(x - 1)^2 + (y - 4)^2 = 9$



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