Name _____ Class _____ Date _____

Practice 12-5

Circles in the Coordinate Plane

Find the center and radius of each circle.

1. $x^2 + y^2 = 36$ _____

2. $(x + 1)^2 + (y + 6)^2 = 16$ _____

Write the standard equation of each circle.

3. center $(0, 0)$; $r = 7$ _____

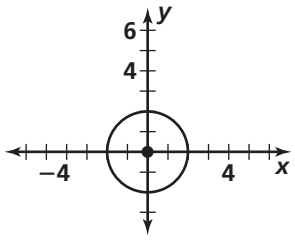
4. center $(5, 3)$; $r = 2$ _____

5. center $(-5, 4)$; $r = \frac{1}{2}$ _____

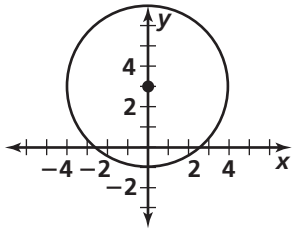
6. center $(-2, -5)$; $r = \sqrt{2}$ _____

Write an equation for each circle.

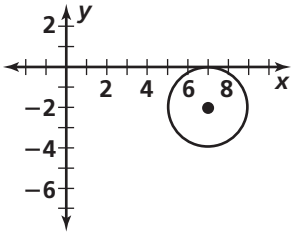
7. _____



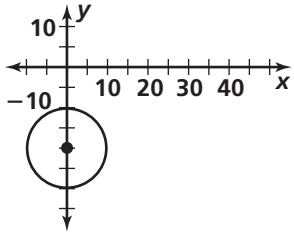
8. _____



9. _____

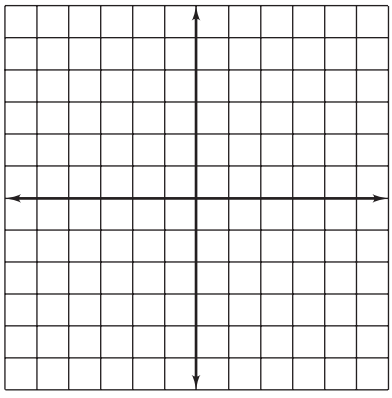


10. _____



Graph each circle. Label its center, and state its radius.

11. $x^2 + y^2 = 25$



12. $(x - 3)^2 + (y - 5)^2 = 9$