Name _____Class_____ Date_____

HW-43 Circles in the Coordinate Plane

Find the center and radius of each circle.

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

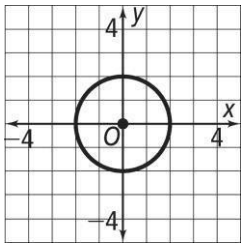
2. $(x + 3)^2 + (y - 11)^2 = 12$

Write the standard equation of each circle.

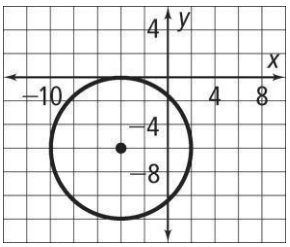
3. center (4, 3); $r = 8$

Write the standard equation of each circle.

4.



5.



Write the standard equation of the circle with the given center that passes through the given point.

6. center (0, 0); point (3, 4)

7. center (−4, −3); point (2, 2)

Name _____ Class _____ Date _____

Write an equation of a circle with diameter AB**.**

8. $A(0, 0), B(-6, 8)$

9. $A(7, 5), B(-1, -1)$

10. Find the circumference and area of the circle whose equation is

$(x - 5)^2 + (y + 4)^2 = 49.$