

NAME \_\_\_\_\_

**Determine Center and Radius From the Equation of a Circle**

*Determine the center and radius of each circle. Be careful with your signs!!*

1.  $(x + 3)^2 + (y - 7)^2 = 100$

center: \_\_\_\_\_ radius: \_\_\_\_\_

2.  $(x - 4)^2 + (y - 1)^2 = 17$

center: \_\_\_\_\_ radius: \_\_\_\_\_

3.  $(x - 9)^2 + y^2 = 24$

center: \_\_\_\_\_ radius: \_\_\_\_\_

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

center: \_\_\_\_\_ radius: \_\_\_\_\_

5.  $(x + 8)^2 + (y + 12)^2 = 32$

center: \_\_\_\_\_ radius: \_\_\_\_\_

6.  $x^2 + y^2 = 64$

center: \_\_\_\_\_ radius: \_\_\_\_\_