**9. 7 HW Graphing Circles Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Directions: Find the equation of the circle.**

1) Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2) Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



3) Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4) Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Directions: Write the equation given the following information.**

5) Center (3, 5) and a *radius* of 8 6) Center (1, –2) and a *diameter* of 22

7) Center (–6, 0) and a *diameter* of $\sqrt{8}$ 8) Center (3, –3) and a *radius* of 7

**Directions: Graph the following circles. State the radius and center.**

9) 10)

11) 12)

13) 14)