Homework 6.8 – Equation of a Circle Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the center and radius of the circle whose equation is $(x+16)^{2}+(y+15)^{2}=100$

2. Write the equation of the circle whose center is at (8, -7) with a radius of 9.

3. Write the equation of the circle whose center is at (-6, 4) and a point on the circle is (-6, 8).

4. Write the equation of the circle whose center is at (3, 3) and a point on the circle is (9, 3).

5. Rewrite the equation of this circle in expanded form. $(x+3)^{2}+(y-4)^{2}=9$

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