Geometry – Unit 10 Practice **Name: _____!**

Equations of Circles #2

G.GPE.A.1 **Date: _____ Pd: ____**

1. Write the equation of a circle whose diameter is 12 and whose center is at (-7, -4).

2. Find the coordinates of the center of this circle: $(x - 4)^2 + (y + 4)^2 = 25$.

3. Write the equation of a circle that has a center at (5, -3) and diameter of 20.

4. The point (0, 6) is on the circle whose equation is $(x)^2 + (y - 2)^2 = 36$. (True / False)

5. What are the coordinates of the center and radius of this circle? $(x - 4)^2 + (y + 7)^2 = 64$.

6. What are the coordinates of the center of this circle? $(x)^2 + (y + 2)^2 = 121$.

7. Write the equation of a circle that has a center at (8, -5) and radius of 5.

8. Write the equation of a circle whose diameter is 6 and whose center is at (-2, 2).

9. The point (-6, 2) is located on / in / outside the circle whose equation is $(x + 4)^2 + (y)^2 = 81$.

10. Write the equation of a circle that has a center at (6, -4) and radius of 16.

11. A certain circle has its center at (-2, 2) containing the point (3, 3). Find the radius.

12. Write the equation of a circle that has a center at (-3, 3) and contains the point (1, 2).

13. A circle has the equation $(x)^2 + (y - 3)^2 = 49$, find its diameter.