

Geometry – Unit 10 Practice
Equations of Circles #4

G.GPE.A.1

Name: _____!

Date: _____ **Pd:** _____

1. Write the equation of a circle whose diameter is 8 and whose center is at (-9, -6).
2. Find the coordinates of the center of this circle: $(x - 8)^2 + (y + 7)^2 = 144$.
3. Write the equation of a circle that has a center at (8, -6) and diameter of 12.
4. The point (-2, 0) is on the circle whose equation is $(x + 2)^2 + (y + 1)^2 = 16$. (True / False)
5. What are the coordinates of the center and radius of this circle? $(x - 6)^2 + (y + 6)^2 = 121$.
6. What are the coordinates of the center of this circle? $(x)^2 + (y + 5)^2 = 25$.
7. Write the equation of a circle that has a center at (3, -7) and radius of 7.
8. Write the equation of a circle whose diameter is 10 and whose center is at (-8, 8).
9. The point (-7, 8) is located on / in / outside the circle whose equation is $(x + 8)^2 + (y)^2 = 100$.
10. Write the equation of a circle that has a center at (9, -3) and radius of 2.
11. A certain circle has its center at (1, -4) containing the point (4, 2). Find the radius.
12. Write the equation of a circle that has a center at (4, -2) and contains the point (7, 2).
13. A circle has the equation $(x - 7)^2 + (y + 4)^2 = 16$, find its diameter.