

Geometry – Unit 10 Practice
Equations of Circles #3

G.GPE.A.1

Name: _____!

Date: _____ **Pd:** _____

1. Write the equation of a circle whose diameter is 16 and whose center is at $(-8, 5)$.
2. Find the coordinates of the center of this circle: $(x - 5)^2 + (y + 5)^2 = 169$.
3. Write the equation of a circle that has a center at $(6, -4)$ and diameter of 18.
4. The point $(-4, 1)$ 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? $(x - 8)^2 + (y + 4)^2 = 9$.
6. What are the coordinates of the center of this circle? $(x)^2 + (y + 6)^2 = 36$.
7. Write the equation of a circle that has a center at $(-2, -6)$ and radius of 5.
8. Write the equation of a circle whose diameter is 20 and whose center is at $(6, -6)$.
9. The point $(-8, 5)$ is located on / in / outside the circle whose equation is $(x - 6)^2 + (y)^2 = 121$.
10. Write the equation of a circle that has a center at $(8, -6)$ and radius of 12.
11. A certain circle has its center at $(0, -3)$ containing the point $(4, -5)$. Find the radius.
12. Write the equation of a circle that has a center at $(5, -3)$ and contains the point $(-1, -2)$.
13. A circle has the equation $(x - 1)^2 + (y)^2 = 100$, find its diameter.