

Geometry – Unit 10 Practice
Equations of Circles #5

G.GPE.A.1

Name: _____!

Date: _____ **Pd:** _____

1. Write the equation of a circle whose diameter is 20 and whose center is at (-5, -6).
2. Find the coordinates of the center of this circle: $(x - 9)^2 + (y + 4)^2 = 16$.
3. Write the equation of a circle that has a center at (5, -3) and diameter of 14.
4. The point (0, -3) is on the circle whose equation is $(x + 2)^2 + (y + 3)^2 = 9$. (True / False)
5. What are the coordinates of the center of this circle? $(x - 7)^2 + (y + 7)^2 = 49$.
6. What are the coordinates of the center and radius of this circle? $(x)^2 + (y + 8)^2 = 64$.
7. Write the equation of a circle that has a center at (4, -5) and radius of 9.
8. Write the equation of a circle whose diameter is 30 and whose center is at (-10, 4).
9. The point (-4, 6) 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 (2, -8) and radius of 5.
11. A certain circle has its center at (2, 0) containing the point (-4, 3). 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 $(x + 2)^2 + (y - 3)^2 = 225$, find its diameter.