

Algebra 2

Writing Assignment: Writing the Equation of a Circle

3 Points for each question

Total Points: 30

Answer each of the following problems.

1. Write the equation of a circle with a center at $(0, 0)$ and a radius of 5.
2. Write the equation of a circle with a center of $(0, 0)$ and a diameter of 20.
3. Write the equation of a circle with a center at $(1, 2)$ and a diameter of 15.
4. Write the equation of a circle with a center at $(0, 8)$ and a radius of 9.
5. Write the equation of a circle with a center at $(-5, -7)$ and a radius of 3.8.
6. Write the equation of a circle with a center at $(7, 3)$ and a diameter of 24.
7. Write the equation of a circle with a center at $(4, 1)$ and a radius of 6.
8. Write the equation of a circle with a center at $(10, 10)$ and a radius of 12.

9. Write the equation of a circle with a center at $(-3, -4)$ and a radius of 3.

10. Write the equation of a circle with a center at $(6, 7)$ and a diameter of 4.