

Name \_\_\_\_\_

Date \_\_\_\_\_

**Finding the Equation of Circles Problems - Matching Worksheet**

Write the letter of the answer that matches the problem.

- \_\_\_\_\_ 1. Find the equation of a circle whose center is at (5, - 1) and radius 3. a.  $(x - 1.5)^2 + (y - 1)^2 = 21.25$
- \_\_\_\_\_ 2. Find the equation of a circle that has a diameter with the endpoints given by the points A (-4, -2) and B (4, 2). b.  $(x - 4)^2 + (y + 5)^2 = 81$
- \_\_\_\_\_ 3. Find the equation of a circle whose center is at (4, - 5) and radius 9. c.  $(x + 6)^2 + (y + 4)^2 = 4$
- \_\_\_\_\_ 4. Find the equation of a circle that has a diameter with the endpoints given by the points A (-2, -2) and B (5, 4). d.  $(x - 1)^2 + (y - 1)^2 = 61$
- \_\_\_\_\_ 5. Find the equation of a circle whose center is at (4, - 7) and radius 6. e.  $(x - 3)^2 + (y + 6)^2 = 16$
- \_\_\_\_\_ 6. Find the equation of a circle that has a diameter with the endpoints given by the points A (-5, 4) and B (7, 9). f.  $(x - 0)^2 + (y - 0)^2 = 20$
- \_\_\_\_\_ 7. Find the equation of a circle whose center is at (-6, - 4) and radius 2. g.  $(x - 5)^2 + (y + 1)^2 = 9$
- \_\_\_\_\_ 8. Find the equation of a circle that has a diameter with the endpoints given by the points A (-5, 6) and B (7, -4). h.  $(x - 1)^2 + (y - 6.5)^2 = 42.25$
- \_\_\_\_\_ 9. Find the equation of a circle whose center is at (3, - 6) and radius 4. i.  $(x - 4)^2 + (y + 7)^2 = 36$

