

Name \_\_\_\_\_

Date \_\_\_\_\_

# WRITING CIRCLE EQUATIONS

Use this given information to write the standard form equation of the circle.

1. Center: (9, -8)  
Tangent to:  $x = -1$

2.  $x^2 + y^2 - 8x - 24y + 144 = 0$

3. Center: (1, 9)  
Circumference:  $12\pi$

4. Center: (-1, 12)  
Radius: 1

5. Center: (2, -3)  
Point on the Circle: (2, -13)

6.  $x^2 + y^2 + 4x - 6y + 12 = 0$   
Translated: 1 left and 5 down

7. Center: (5, 11)  
Area:  $64\pi$

8. Three Points on the Circle Are:  
(-3, -1), (3, 5), and (9, 1)

9. Ends of a Diameter: (-5, 4) and (-5, 18)

10.  $(x - 8)^2 + (y - 7)^2 = 25$   
Translated: 3 left and 4 up