**9.10 HW Writing Equations of Circles Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Review: Write the equation of the circle in STANDARD form.**

1) 2)

**Directions: Write the equation of the circle in GENERAL form.**

3) 4)

5) 6)

**Directions: Write the equation of the circle in both forms.**

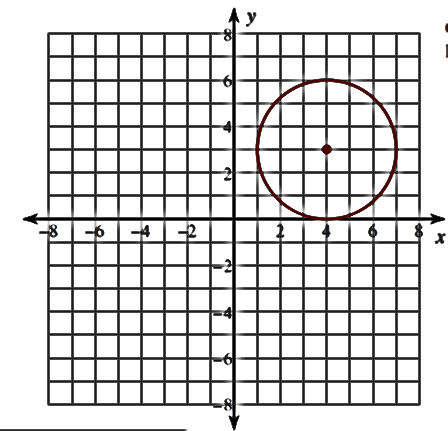
7) Center: (2, –3) & Radius: 7 8) Center: (–13, –16) & Point on the Circle:

( –10, –16)

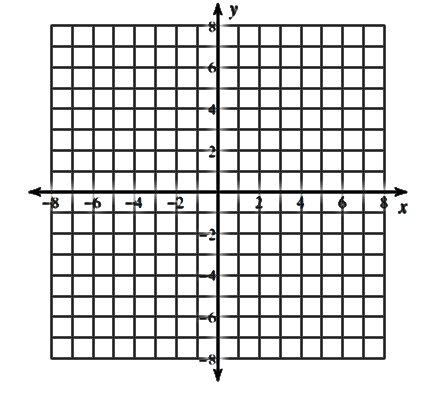
9) Center: (0, 5) & Diameter: 10 10) Center: (4, 1) & Point on the Circle: (4, 4)

11) Ends of the diameter are (18, –13) and (4, –3) 12) Center: (0, 13) & Area of 25

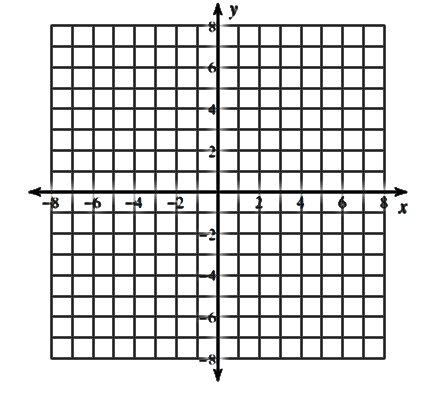
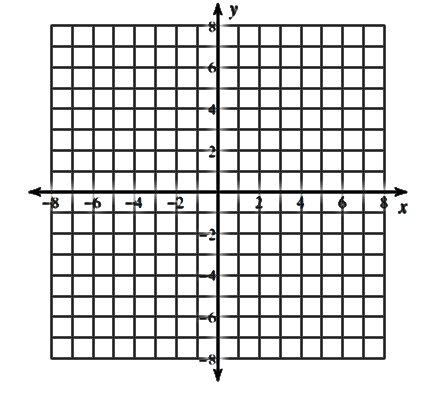
13) Ends of Diameter are (0, 0) & (0, 6) 14) Center: (3, 1) & Circumference of 10



15) 16) Center (1, –4) & Tangent to x = 5



17) Center: (0, 0) & Tangent to y = –3 18) Inscribed in the system of

 y = 3, y = 7, x = 1, & x = 5