Name_____ Class_____ Date_____

10-3 Practice

Form G

Circles

Write an equation of a circle with the given center and radius. Check your answers.

3. center (–1, 0), radius 6

4. center (2, 0), radius 1

5. center (1, –5), radius 2.5

6. center (2, 3), diameter 1

Write an equation for each translation.

7. $x^2 + y^2 = 9$; right 4 and down 2

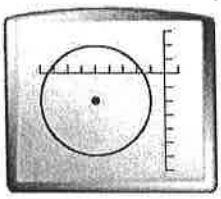
8. $x^2 + y^2 = 12$; left 2 and up 5

11. $x^2 + y^2 = 25$; up 10

12. $x^2 + y^2 = 36$; left 8 and down 6

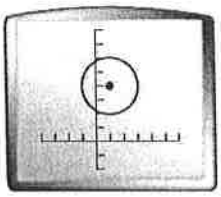
Write an equation for each circle. Each interval represents one unit.

13.



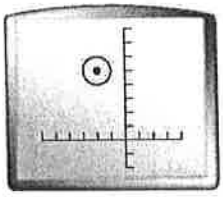
x scale = 1 *y* scale = 1

14.



x scale = 1 *y* scale = 1

15.



x scale = 1 *y* scale = 1

For each equation, find the center and radius of the circle.

19. $(x + 1)^2 + (y - 8)^2 = 1$

20. $x^2 + (y + 3)^2 = 9$

23. $(x - 6)^2 + (y - 9)^2 = 4$

24. $(x - 6)^2 + y^2 = 5$