NAME _____ DATE _____ PERIOD _____

Skills Practice

Equations of Circles

Write an equation of a circle for each center and radius or diameter measure given.

1. $(1, 1)$, $r = 2$

2. $(-3, 2)$, $d = 2$

3. $(-1, -5)$, $r = 3$

4. $(4, -3)$, $d = 4$

5. $(0, 2)$, $r = 4$

6. $(5, 0)$, $r = 1$

7. $(0, 0)$, $r = 6$

8. $(-1, 1)$, $d = 6$

9. $(-5, 5)$, $r = 5$

10. $(-3, 3)$, $d = 20$

11. $(-6, -1)$, $d = 10$

12. $(4, 4)$, $d = 14$

13. $(3, 7)$, $d = 2\sqrt{2}$

14. $(-5, 2)$, $r = \sqrt{6}$

15. $(0, -2)$, $r = \sqrt{10}$

16. $(7, 0)$, $d = 2\sqrt{5}$

Find the coordinates of the center and the measure of the radius for each circle whose equation is given.

17. $(x + 5)^2 + (y - 2)^2 = 49$

18. $(x - 3)^2 + (y + 7)^2 = 100$

19. $(x + 1)^2 + (y + 8)^2 = 121$

20. $x^2 + y^2 = 64$

21. $x^2 + (y + 9)^2 = 81$

22. $(x + 3)^2 + y^2 = 25$

23. $(x - 6)^2 + (y + 6)^2 = 36$

24. $x^2 + y^2 = 5$

25. $x^2 + (y - 4)^2 = 7$

26. $(x - 1)^2 + (y + 1)^2 = 10$