

Name _____

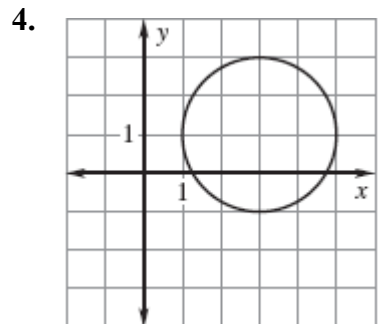
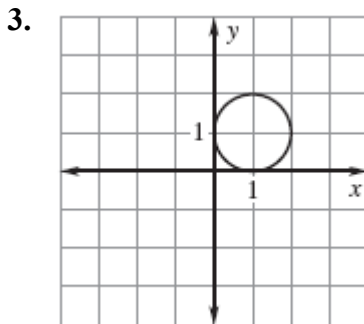
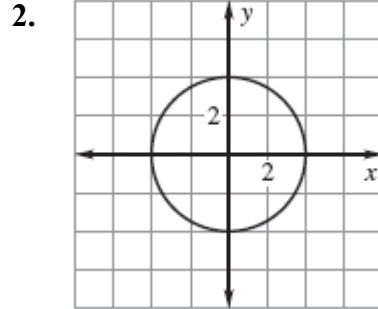
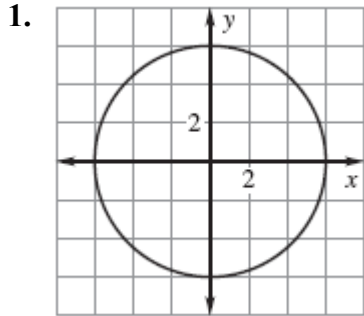
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LESSON 10.7

Practice B

For use with pages 699–705

Write the standard equation of the circle.



Write the standard equation of the circle with the given center and radius.

5. Center $(0, 0)$, radius 9
6. Center $(1, 3)$, radius 4
7. Center $(0, 14)$, radius 14
8. Center $(-12, 7)$, radius 6

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

9. The center is $(0, 0)$, and a point on the circle is $(4, 0)$.
10. The center is $(0, 0)$, and a point on the circle is $(3, -4)$.

11. The center is $(-43, 5)$, and a point on the circle is $(-34, 17)$.

12. The center is $(17, 24)$, and a point on the circle is $(-3, 9)$.

Determine the diameter of the circle with the given equation.

13. $x^2 + y^2 = 100$

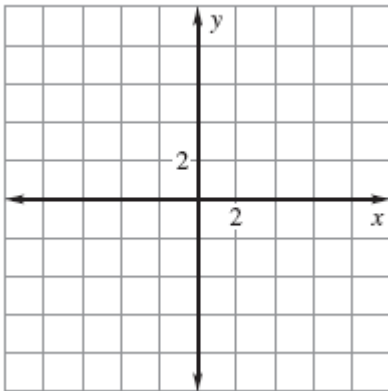
14. $(x - 12)^2 + (y + 5)^2 = 64$

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

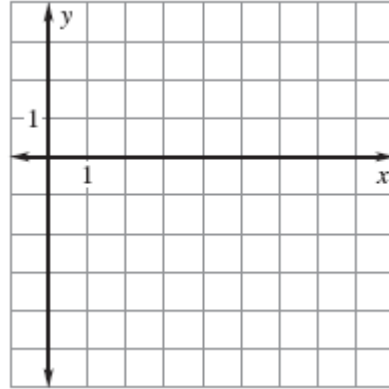
16. $(x + 16)^2 + (y + 15)^2 = 81$

Graph the equation.

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



18. $(x - 4)^2 + (y + 1)^2 = 16$



Determine whether the point lies on the circle described by the equation

$(x - 3)^2 + (y - 8)^2 = 100$.

19. $(0, 0)$

20. $(13, 8)$

21. $(-5, 2)$

22. $(11, 5)$