

LESSON
10.7**Practice A***For use with the lesson "Write and Graph Equations of Circles"***Match the equation of a circle with its description.**

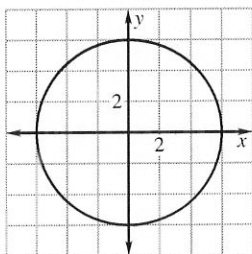
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|---------------------------------|---------------------------------|
| 1. $x^2 + y^2 = 4$ | A. center $(-1, 4)$, radius 4 |
| 2. $x^2 + y^2 = 9$ | B. center $(-2, -3)$, radius 3 |
| 3. $(x + 1)^2 + (y - 4)^2 = 16$ | C. center $(0, 0)$, radius 2 |
| 4. $(x + 2)^2 + (y + 3)^2 = 9$ | D. center $(2, 5)$, radius 3 |
| 5. $(x + 3)^2 + (y - 5)^2 = 16$ | E. center $(-3, 5)$, radius 4 |
| 6. $(x - 2)^2 + (y - 5)^2 = 9$ | F. center $(0, 0)$, radius 3 |

Give the center and radius of the circle.

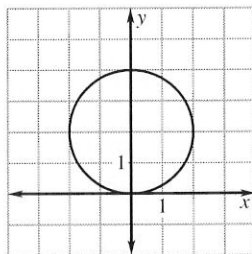
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|----------------------------------|----------------------------------|
| 7. $x^2 + y^2 = 25$ | 8. $x^2 + (y - 4)^2 = 9$ |
| 9. $(x - 5)^2 + y^2 = 16$ | 10. $(x + 1)^2 + (y - 1)^2 = 4$ |
| 11. $(x - 2)^2 + (y - 4)^2 = 16$ | 12. $(x + 4)^2 + (y - 2)^2 = 25$ |

Write the standard equation of the circle.

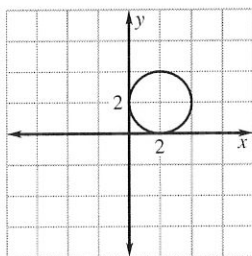
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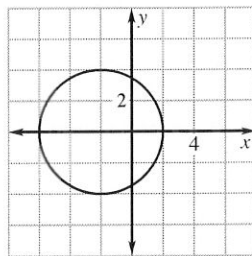
14.



15.



16.

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

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|---------------------------------|----------------------------------|
| 17. Center $(0, 0)$, radius 2 | 18. Center $(0, 3)$, radius 2 |
| 19. Center $(2, 0)$, radius 3 | 20. Center $(5, -6)$, radius 1 |
| 21. Center $(0, 9)$, radius 7 | 22. Center $(-3, 7)$, radius 6 |
| 23. Center $(0, 0)$, radius 10 | 24. Center $(-5, -1)$, radius 8 |