

LESSON
10.3**Practice B**

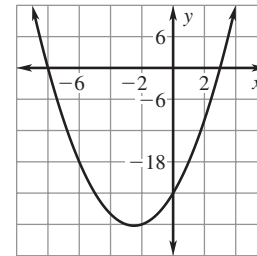
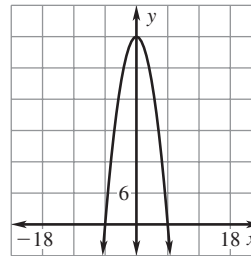
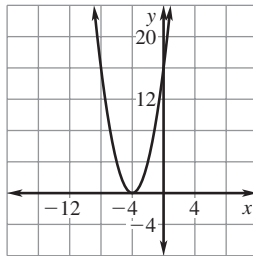
For use with pages 643–651

Determine whether the given value is a solution of the equation.

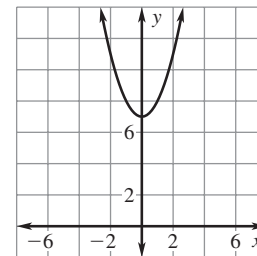
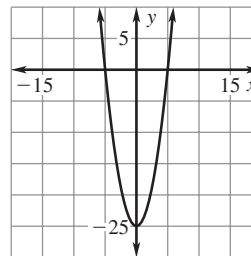
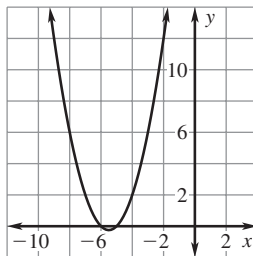
1. $x^2 - 2x + 15 = 0$; 3 2. $x^2 - 4x - 12 = 0$; 2 3. $-x^2 - 5x - 6 = 0$; 3
 4. $x^2 + 3x - 4 = 0$; 1 5. $2x^2 + 9x - 5 = 0$; -2 6. $3x^2 - 5x - 2 = 0$; 2

Use the graph to find the solutions of the given equation.

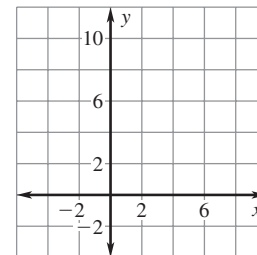
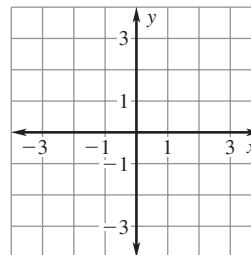
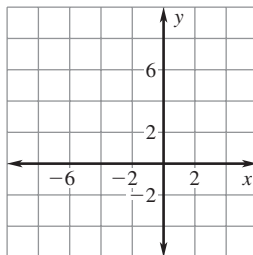
7. $x^2 + 8x + 16 = 0$ 8. $-x^2 + 36 = 0$ 9. $x^2 + 5x - 24 = 0$



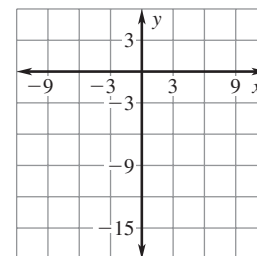
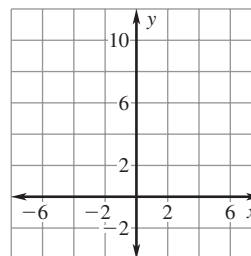
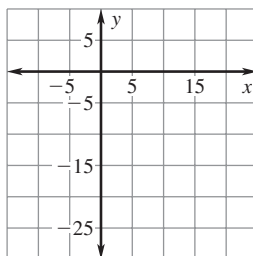
10. $x^2 + 11x + 30 = 0$ 11. $x^2 - 25 = 0$ 12. $x^2 + 7 = 0$

**Solve the equation by graphing.**

13. $-x^2 - 6x = 0$ 14. $2x^2 = 2$ 15. $x^2 - 7x + 10 = 0$



16. $x^2 = 10x$ 17. $x^2 - 6x + 9 = 0$ 18. $-x^2 + 9x = 18$

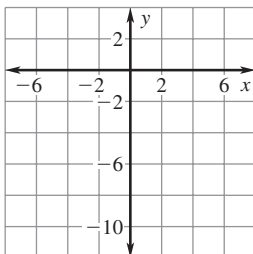


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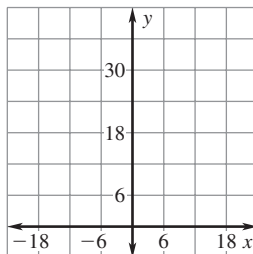
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Find the zeros of the function by graphing.

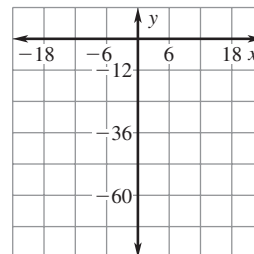
19. $f(x) = -x^2 - 5x - 10$



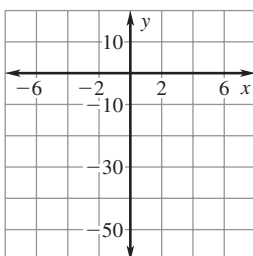
20. $f(x) = x^2 + 12x + 36$



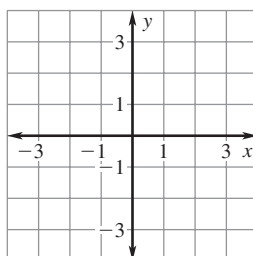
21. $f(x) = 2x^2 + 24x$



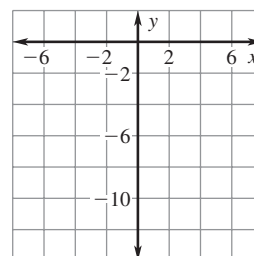
22. $f(x) = x^2 - 49$



23. $f(x) = -x^2 + 1$

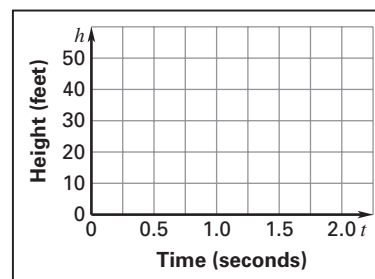


24. $f(x) = 3x^2 + 12x$



- 25. Stunt Double** A movie stunt double jumps from the top of a building 50 feet above the ground onto a pad on the ground below. The stunt double jumps with an initial vertical velocity of 10 feet per second.

- Write and graph a function that models the height h (in feet) of the stunt double t seconds after she jumps.
- How long does it take the stunt double to reach the ground?



- 26. Wastebasket** You throw a wad of used paper towards a wastebasket from a height of about 1.3 feet above the floor with an initial vertical velocity of 3 feet per second.

- Write and graph a function that models the height h (in feet) of the paper t seconds after it is thrown.
- If you miss the wastebasket and the paper hits the floor, how long does it take for the ball of paper to reach the floor?
- If the ball of paper hits the rim of the wastebasket one-half foot above the ground, how long was the ball in the air?

