

Extra Practice

The graphs are on the pages that follow.



Lesson 10-2

(pages 533–538)

Solve each equation by graphing. **1–6. See margin for graphs.**

1. $a^2 - 25 = 0$ **-5, 5**

2. $n^2 - 8n = 0$ **0, 8**

3. $d^2 + 36 = 0$ **\emptyset**

4. $b^2 - 18b + 81 = 0$ **9**

5. $x^2 + 3x + 27 = 0$ **\emptyset**

6. $-y^2 - 3y + 10 = 0$ **-5, 2**

Solve each equation by graphing. If integral roots cannot be found, estimate the roots by stating the consecutive integers between which the roots lie. **7–24. See margin for graphs.**

7. $x^2 + 2x - 3 = 0$ **-3, 1**

8. $-x^2 + 6x - 5 = 0$ **1, 5**

9. $-a^2 - 2a + 3 = 0$ **-3, 1**

10. $2r^2 - 8r + 5 = 0$ **$0 < r < 1$,**

11. $-3x^2 + 6x - 9 = 0$ **\emptyset**

12. $c^2 + c = 0$ **-1, 0**

13. $3t^2 + 2 = 0$ **\emptyset $3 < t < 4$**

14. $-b^2 + 5b + 2 = 0$ **$-1 < b < 0$,**

15. $3x^2 + 7x = 1$

16. $x^2 + 5x - 24 = 0$ **-8, 3**

17. $8 - n^2 = 0$ **$5 < n < 6$**

18. $x^2 - 7x = 18$ **-2, 9**

19. $a^2 + 12a + 36 = 0$ **-6**

20. $64 - x^2 = 0$ **-8, 8**

21. $-4x^2 + 2x = -1$ **$-1 < x < 0$,**

22. $5z^2 + 8z = 1$

23. $p = 27 - p^2$

24. $6w = -15 - 3w^2$ **$0 < w < 1$**

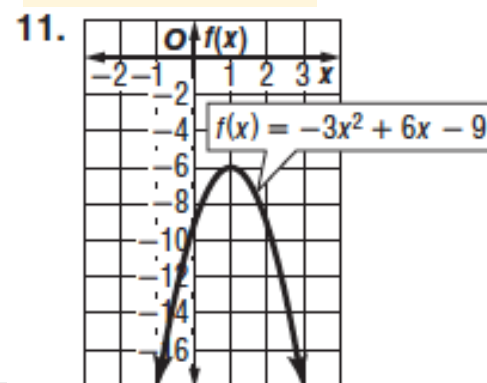
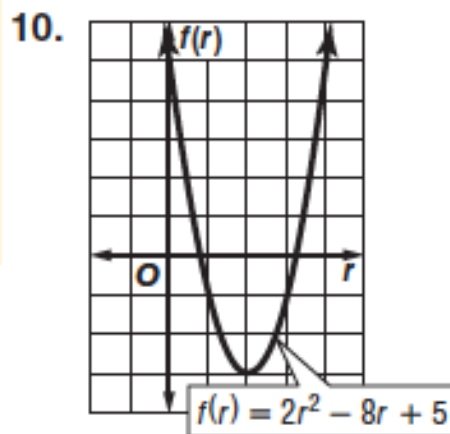
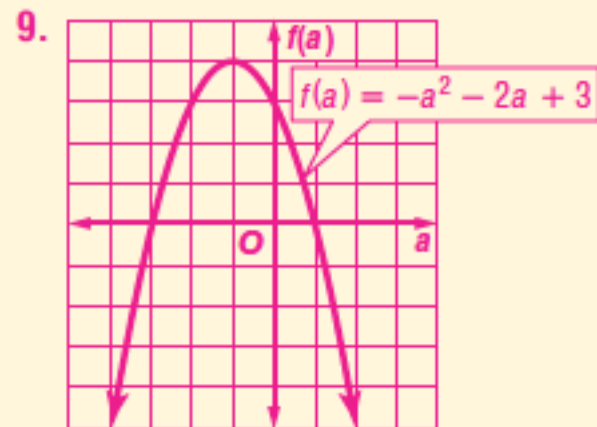
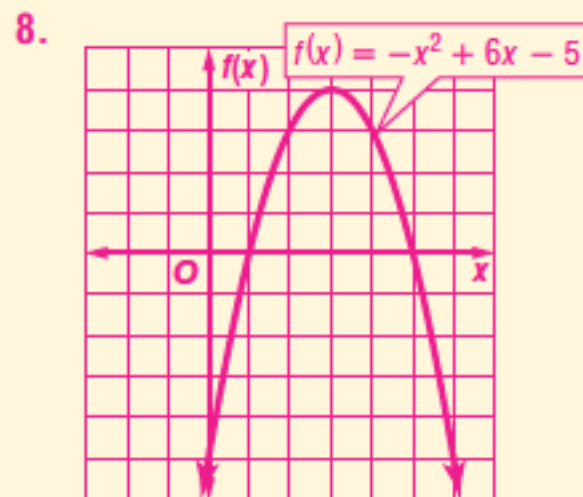
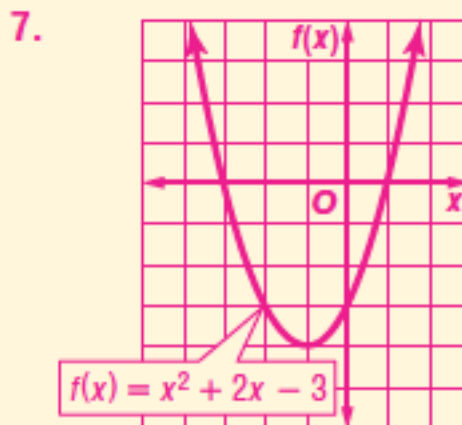
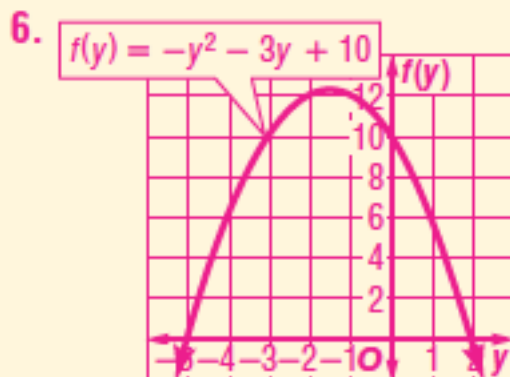
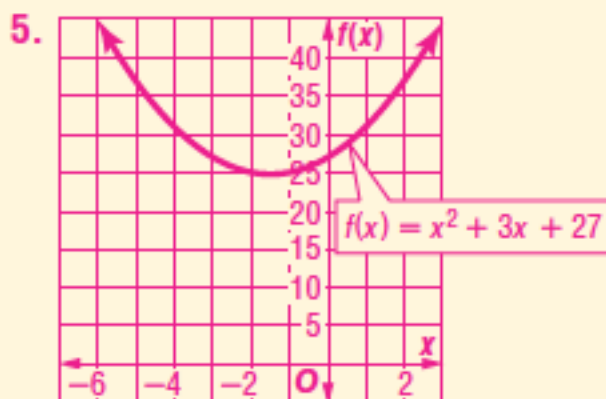
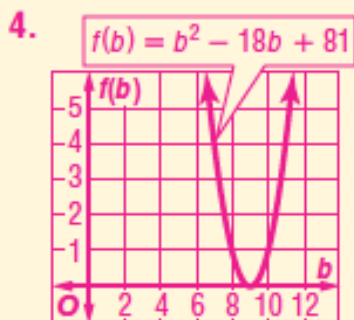
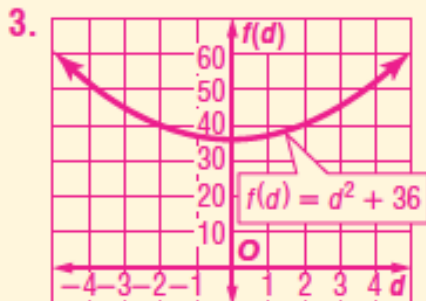
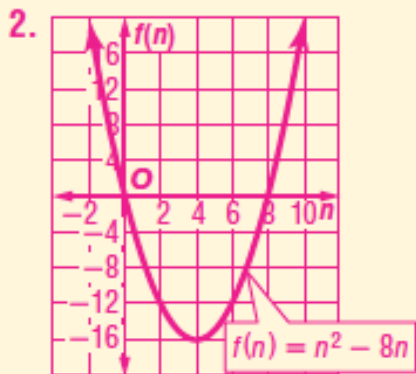
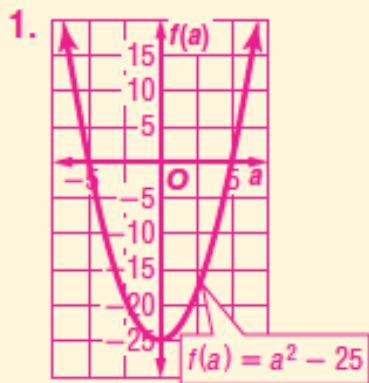
$-2 < z < -1, 0 < z < 1$

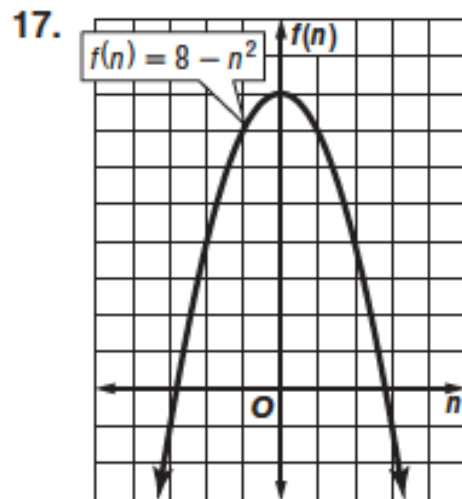
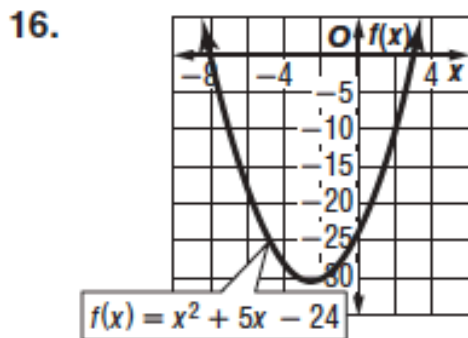
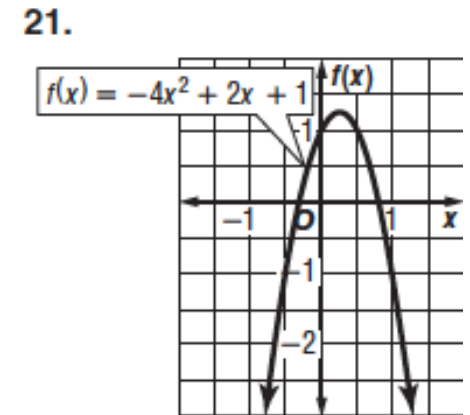
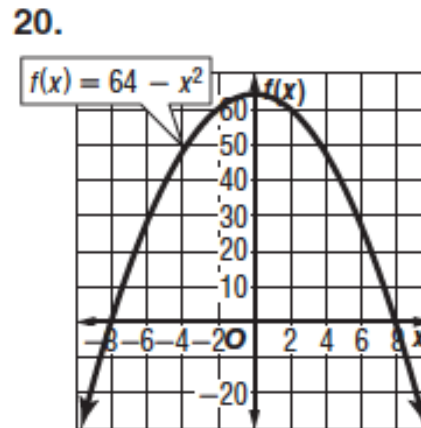
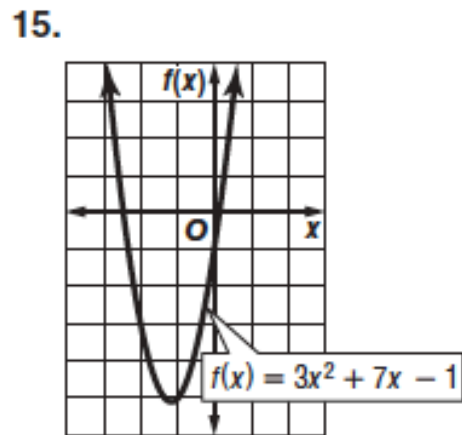
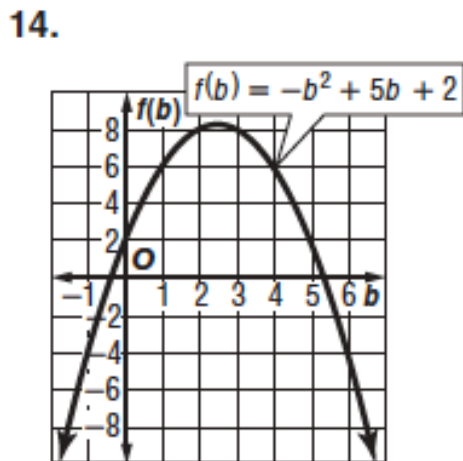
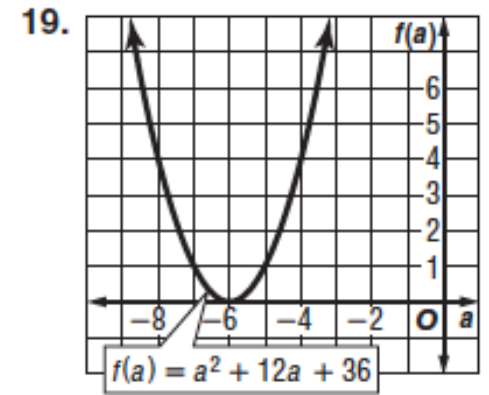
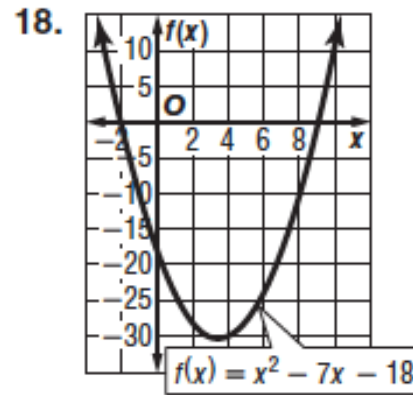
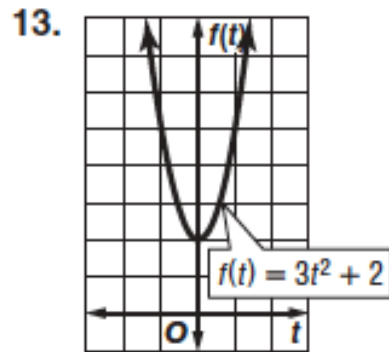
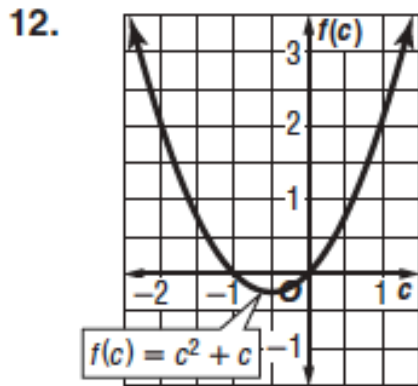
$-6 < p < -5, 4 < p < 5$

\emptyset

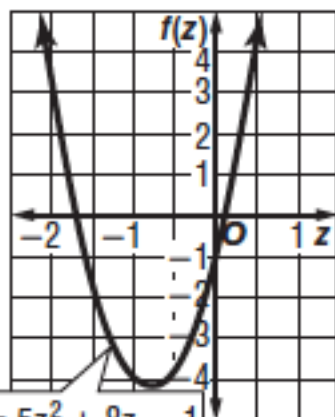
15. $-3 < x < -2, 0 < x < 1$

17. $-3 < n < -2, 2 < n < 3$



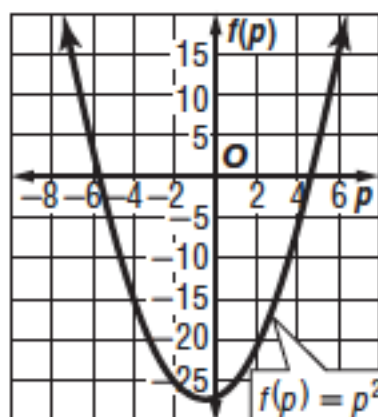


22.



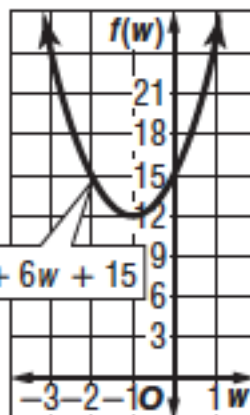
$$f(z) = 5z^2 + 8z - 1$$

23.



$$f(p) = p^2 + p - 27$$

24.



$$f(w) = 3w^2 + 6w + 15$$