Answers for Lesson 6–4 Exercises

1. –2, 1, 5

2. –1, 0, 3

3. 0, 1

4. 0, 8

5. 0, –1, –2

6. 0, –3.5,1

7. 0, –0.5, 1.5

8. –0.5, 0, 3

9. 1, 7

10. 4.8%

11. about 5.78 ft × 6.78 ft × 1.78 ft

12. $(x + 4)(x^2 - 4x + 16)$

13. $(x - 10)(x^2 + 10x + 100)$

14. $(5x - 3)(25x^2 + 15x + 9)$

15. $3, \frac{-3 \pm 3i\sqrt{3}}{2}$

16. $-4, 2 \pm 2i\sqrt{3}$

17. $5, \frac{-5 \pm 5i\sqrt{3}}{2}$

18. $-1, \frac{1 \pm i\sqrt{3}}{2}$

19. $\frac{1}{2}, \frac{-1 \pm i\sqrt{3}}{4}$

20. $-\frac{1}{2}, \frac{1 \pm i\sqrt{3}}{4}$

21. $(x^2 - 7)(x - 1)(x + 1)$

22. $(x^2 + 10)(x^2 - 2)$

23. $(x^2 - 3)(x - 2)(x + 2)$

24. $(x - 2)(x + 2)(x - 1)(x + 1)$

25. $(x - 1)(x + 1)(x^2 + 1)$

26. $2(2x^2 - 1)(x + 1)(x - 1)$

27. $\pm 3, \pm 1$

28. ± 2

29. $\pm 4, \pm 2i$

30. $\pm 3i, \pm\sqrt{2}$

31. $\pm\sqrt{2}, \pm i\sqrt{6}$

32. $\pm i\sqrt{5}, \pm i\sqrt{3}$

33. 3.24, –1, –1.24

34. –9, 0

35. –3, –2, 1, 2

36. 1.71, 0.83

37. 0, 1.54, 8.46

38. 0, 1.27, 4.73

© Pearson Education, Inc., publishing as Pearson Prentice Hall. All rights reserved.