

Chapter 7 Answers

Practice 7-1

1. 12 2. -5 3. not a real number 4. 0.1 5. 0.3 6. 3
7. -3 8. 0.3 9. 6 10. -7 11. -0.4 12. $\frac{10}{3}$ 13. -20, 20
14. no real square roots 15. -100, 100 16. -0.25, 0.25
17. no real fourth roots 18. -4, 4 19. -0.1, 0.1 20. -5, 5
21. $9x^2$ 22. $11|y^2|$ 23. $2x^2$ 24. $5x^3$ 25. $3xy^3$
26. $x - 9$ 27. $5(x + 2y)^2$ 28. $\frac{4x^3}{y}$ 29. -2.2 30. -3.3
31. -0.4, 0.4 32. $-\frac{4}{y}, \frac{4}{y}$ 33. 20 cm 34a. about 25.30 ft/sec
34b. about 10.48 ft/sec

Practice 7-2

1. $2\sqrt{6}$ 2. $9xy\sqrt[3]{y}$ 3. $5yz\sqrt[3]{6xz}$ 4. $48x$ 5. $2xy$
6. $27\sqrt{2y}$ 7. $\frac{3\sqrt{2x}}{2}$ 8. $\frac{\sqrt{3y}}{3}$ 9. $\frac{\sqrt[3]{9x^2y^2}}{3y}$ 10. $\frac{\sqrt[3]{54x}}{3x}$
11. $\frac{\sqrt{2xy}}{4y}$ 12. $\frac{\sqrt[3]{6abc^2}}{2bc}$ 13. 10 14. 54 15. 9 16. -3
17. $3x^2\sqrt{2}$ 18. $2xy^3$ 19. $6x\sqrt{x}$ 20. $5z\sqrt[3]{y^2z}$
21. $3x^3\sqrt{2}$ 22. $-2a^4\sqrt[3]{2}$ 23. $xy^2\sqrt{z}$ 24. $4x^3\sqrt[3]{x^3}$
25. $6xy\sqrt[3]{x}$ 26. $5x\sqrt{3x}$ 27. $5xy^2\sqrt[3]{x}$ 28. $\sqrt{2}$ 29. $\sqrt[3]{4x}$
30. $\frac{3}{k}$ 31. $\frac{2x}{25y^2}$ 32. $\frac{\sqrt[3]{12y}}{2}$ 33. $\frac{3\sqrt{3}}{a}$
34a. $r = \sqrt{\frac{3V}{4\pi}}$, $r = \frac{\sqrt[3]{6\pi^2V}}{2\pi}$ 34b. 2.88 in.

Practice 7-3

1. -63 2. -6 3. 73 4. $11\sqrt{3}$ 5. $5\sqrt{2} + 2\sqrt{3}$
6. $3\sqrt{7} - 7\sqrt[3]{x}$ 7. $11\sqrt[3]{xy}$ 8. $-2 - \sqrt{3}$ 9. $10 - 5\sqrt{3}$
10. $-\frac{3 + \sqrt{5}}{2}$ 11. $\frac{22 + 14\sqrt{3}}{13}$ 12. $22\sqrt{2}$ 13. $4\sqrt{2}$
14. 0 15. $13\sqrt[3]{3}$ 16. $-3 - \sqrt{5}$ 17. $-38 + 7\sqrt{10}$
18. $67 - 15\sqrt{7}$ 19. $28 - 16\sqrt{3}$ 20. $9 + 2\sqrt{14}$
21. $30 + 12\sqrt{6}$ 22. $12\sqrt{7}$ 23. $18\sqrt{10}$
24. $41\sqrt{3} - 3\sqrt{6}$ 25. $6\sqrt[3]{3} + 4\sqrt[3]{9}$ 26. $105\sqrt{x}$
27. $26y\sqrt{5}$ 28. $6y + 13\sqrt{5y} - 25$ 29. $x - 3$
30. $\frac{\sqrt{5} - 2\sqrt{2}}{3}$ 31. $\sqrt{2}$ 32. $\frac{x + 2\sqrt[3]{x^2}}{x}$
33a. $(900 + 300\sqrt{3} + 300\sqrt{6})$ ft or about 2154 ft
33b. $\frac{270,000 + 90,000\sqrt{3}}{2}$ ft² or about 212,942 ft²

Practice 7-4

1. 3 2. 81 3. 32 4. 256 5. 1 6. 4 7. -1 8. 9 9. 2
10. $x^{\frac{2}{3}}$ 11. $2y^{\frac{2}{3}}$ 12. 4 13. 1 14. $\frac{1}{2}$ 15. $\frac{9}{4}$ 16. 0

17. $12x^{\frac{2}{3}}$ 18. $\frac{3}{y^{\frac{2}{3}}}$ 19. $9ab^{\frac{2}{3}}$ 20. $\frac{1}{y^{\frac{2}{3}}}$ 21. $\frac{b^3}{a^{\frac{2}{3}}}$ 22. $y^{\frac{10}{3}}$
23. $\frac{1}{x^{\frac{2}{3}}}$ 24. $8a^{\frac{2}{3}}$ 25. $\frac{1}{y}$ 26. $12x^{\frac{10}{3}}$ 27. $\frac{3x^2}{y}$
28. 10.1% 29. $\sqrt[3]{x^2}$ 30. $\sqrt[3]{2y}$ 31. $\sqrt{a^3}$ 32. $\sqrt[3]{b}$
33. $\sqrt[3]{z^2}$ 34. $\sqrt[3]{ab}$ 35. $\sqrt[3]{m^{12}}$ 36. $\frac{1}{\sqrt{r}}$ 37. $\frac{1}{\sqrt[3]{a^2}}$
38. $x^{\frac{2}{3}}$ 39. $m^{\frac{1}{3}}$ 40. $(5y)^{\frac{1}{3}}$ 41. $2^{\frac{1}{3}}y^{\frac{2}{3}}$ 42. $b^{\frac{2}{3}}$ 43. $(-6)^{\frac{2}{3}}$
44. $36a^2$ 45. $n^{\frac{2}{3}}$ 46. $(5ab)^{\frac{1}{3}}$

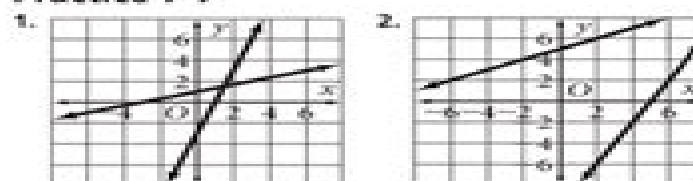
Practice 7-5

1. 127 2. -8, 8 3. 9 4. 3 5. no solution 6. 25 7. 9
8. -14 9. 1 10. 27 11. 4, 2 12. 9 13. 7 14. 2 15. 4
16. 29, -25 17. 10 18. 16 19. 4 20. 13 21. 4
22. -27, 27 23. 64 24. 0, -1 25. no solution 26. 64
27. 23 28. 0 29. no solution 30. -2 31. 1 32. -123
33. 8 34. 12 35. 1 36. 16 37. 8 38. -6, 2 39. 2
40. 1 41. 2 42. 66

Practice 7-6

- 1a. $f(x) = 1.8x$ 1b. $g(x) = 0.75x$ 1c. $g(f(150)) = \$202.50$
1d. No; it doesn't matter whether you first multiply by 0.75
or by 1.8. 2. $2x^2 + 4x + 2$; all real numbers
3. $-2x^2 + 4x - 4$; all real numbers
4. $8x^3 - 2x^2 + 12x - 3$; all real numbers
5. $\frac{4x - 1}{2x^2 + 3}$; all real numbers 6. $2x^2 - 4x + 4$; all real
numbers 7. $\frac{2x^2}{4x} + \frac{3}{4}$; all real numbers except $\frac{1}{4}$ 8. -4
9. -2 10. 7 11. $-\frac{3x + 2}{5}$ 12. $-4x + 7$
13. $2x^2 - 3x - 7$ 14. $\frac{17}{5}$ 15. $\frac{16}{5}$ 16. $-8x + 6$ 17. $-\frac{4}{3}$
18. $-\frac{3x + 2}{5}$ 19. $\frac{7}{5}$ 20. $3x^2 - 13$
21. $3x^3 + 2x^2 - 15x - 10$ 22. $-2x^2 + 3x + 12$
23a. $f(x) = 0.75x$ 23b. $g(x) = x - 5$
23c. $g(f(50)) = \$32.50$ 23d. Yes; multiplying by 0.75 and
then subtracting by 5 is different than subtracting by 5 and
then multiplying by 0.75.

Practice 7-7



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