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.** $11\,|y^5|$ **23.** $2g^2$ **24.** $5x^3$ **25.** $3xy^3$

26. $x - 9$ **27.** $5(x + 2)^2$ **28.** $\frac{4x^3}{7}$ **29.** $-2, 2$ **30.** $-3, 3$

31. $-0.4, 0.4$ **32.** $-\frac{4}{7}, \frac{4}{7}$ **33.** 20 cm **34a.** about 25.30 ft/sec

34b. about 10.48 ft/sec

17. $12x^{\frac{2}{3}}$ **18.** $\frac{3}{y^{\frac{5}{2}}}$ **19.** $9ab^{\frac{5}{3}}$ **20.** $\frac{1}{y^8}$ **21.** $\frac{b^3}{a^2}$ **22.** $y^{\frac{11}{12}}$

23. $\frac{1}{x^{\frac{9}{2}}}$ **24.** $8a^{\frac{9}{4}}$ **25.** $\frac{1}{9}$ **26.** $12x^{\frac{10}{3}}$ **27.** $\frac{2x^2}{y}$

28. 10.1% **29.** $\sqrt[3]{x^4}$ **30.** $\sqrt[3]{2y}$ **31.** $\sqrt{a^5}$ **32.** $\sqrt[5]{b}$

33. $\sqrt[3]{z^2}$ **34.** $\sqrt[4]{ab}$ **35.** $\sqrt[5]{m^{12}}$ **36.** $\frac{1}{\sqrt[3]{r}}$ **37.** $\frac{1}{\sqrt{a^5}}$

38. $x^{\frac{2}{3}}$ **39.** $m^{\frac{1}{4}}$ **40.** $(5y)^{\frac{1}{2}}$ **41.** $2^{\frac{1}{3}}y^{\frac{4}{3}}$ **42.** $b^{\frac{4}{5}}$ **43.** $(-6)^{\frac{1}{4}}$

44. $36a^2$ **45.** $n^{\frac{3}{5}}$ **46.** $(5ab)^{\frac{2}{3}}$

Practice 7-2

1. $2\sqrt{6}$ **2.** $9xy^2\sqrt{y}$ **3.** $5yz^2\sqrt[3]{6x^2}$ **4.** $48x$ **5.** $2xy$

6. $27\sqrt{2y}$ **7.** $\frac{3\sqrt{2x}}{2}$ **8.** $\frac{\sqrt{3x}}{3}$ **9.** $\frac{\sqrt[3]{9x^2y^2}}{3y}$ **10.** $\frac{\sqrt[4]{54x^3}}{3x}$

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. $3k^3\sqrt{2}$ **22.** $-2a^4\sqrt{2}$ **23.** $xy^2\sqrt{z}$ **24.** $4x^2\sqrt[5]{x^3}$

25. $6xy\sqrt[3]{x}$ **26.** $5r\sqrt{3r}$ **27.** $5u^2\sqrt[3]{u}$ **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.** $13\sqrt[4]{3}$ **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.** $6\sqrt{3} + 4\sqrt[3]{9}$ **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.** $2y^{\frac{3}{2}}$ **12.** 4 **13.** 1 **14.** $\frac{1}{2}$ **15.** $\frac{9}{4}$ **16.** 0

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.** -125

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.** $\frac{2x^2 + 3}{4x - 1}$; 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.** $-\frac{4}{5}$

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

1.

2.
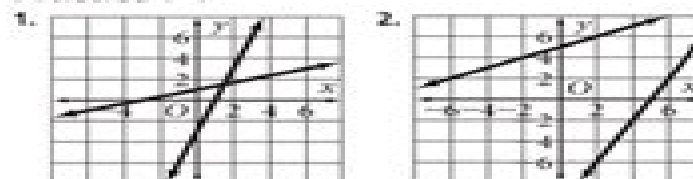
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