

# 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.  $\frac{270,000 + 90,000\sqrt{3}}{2}$  ft<sup>2</sup> or about 212,942 ft<sup>2</sup>

## 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.  $y^{\frac{2}{3}}$   
23.  $\frac{1}{x^{\frac{2}{3}}}$  24.  $8a^{\frac{2}{3}}$  25.  $\frac{1}{y^{\frac{2}{3}}}$  26.  $12x^{\frac{2}{3}}$  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.  $\frac{1}{\sqrt[3]{r^2}}$  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.  $(5ab)^{\frac{1}{3}}$

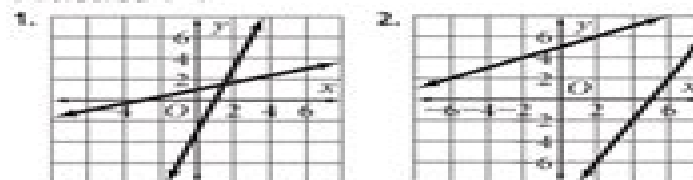
## Practice 7-5

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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