

# 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.  $y^{\frac{10}{3}}$   
23.  $\frac{1}{x^{\frac{2}{3}}}$  24.  $8a^{\frac{2}{3}}$  25.  $\frac{1}{y^{\frac{2}{3}}}$  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.  $\frac{1}{\sqrt[3]{r^2}}$  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.  $(5ab)^{\frac{1}{3}}$

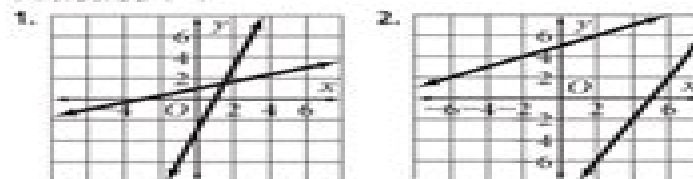
## Practice 7-5

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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**Léo Pomar**



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web dalam pembuatan prototype ini menggunakan alternatif lain untuk menggantikan peran plc dalam mengendalikan proses elevator atau lift yang bekerja yaitu menggunakan mikrokontroler arduino unoprototype elevator atau lift ini berpedoman pada lift sebenarnya yang terdiri dari sensor di setiap lantai yang digunakan sebagai gerakan

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web penelitian ini membuat sistem kontrol miniatur lift 3 lantai menggunakan plc sebagai komponen utama yang pengembangannya dapat diaplikasikan pada gedung bertingkat untuk memudahkan operasional yang dilakukan para pekerjanya miniatur lift 3 lantai ini juga menambahkan hmi human machine interface dan push button yang berada

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web i pengenalan papan panel kontrol perangkat lift 3 lantai dan konveyor box trainer plc kontrol dan power sebelum memulai praktik dengan menggunakan trainer pengguna perlu mengenal dan memahami bagian bagian dari trainer trainer lift 3 lantai terdiri dari 3 bagian penting yaitu a box trainer b

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akibatnya penekanan tersebut lift akan diam selama 5 detik di lantai tersebut kemudian lift turun ke lantai 2

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