

# 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.  $2y^2$  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

## Practice 7-2

1.  $2\sqrt{6}$  2.  $9xy\sqrt{y}$  3.  $5yz\sqrt[3]{6x^2}$  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.  $4x^3\sqrt[3]{y^3}$   
 25.  $6xy\sqrt[3]{x}$  26.  $5r\sqrt{3r}$  27.  $5uv^2\sqrt[3]{u}$  28.  $\sqrt{2}$  29.  $\sqrt[3]{4x}$   
 30.  $\frac{3}{k}$  31.  $\frac{2x}{25y^2}$  32.  $\frac{\sqrt{12y}}{2}$  33.  $\frac{3\sqrt{3}}{2}$   
 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.  $3\sqrt{7} - 7\sqrt{x}$  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.  $26y\sqrt{3}$  28.  $6y + 13\sqrt{3}y - 25$  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.  $\frac{3x^2}{y^{\frac{2}{3}}}$   
 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.  $\frac{1}{\sqrt[3]{s^2}}$   
 38.  $x^{\frac{2}{3}}$  39.  $m^{\frac{2}{3}}$  40.  $(5y)^{\frac{2}{3}}$  41.  $2^{\frac{2}{3}}y^{\frac{2}{3}}$  42.  $b^{\frac{2}{3}}$  43.  $(-6)^{\frac{2}{3}}$   
 44.  $36a^2$  45.  $n^{\frac{2}{3}}$  46.  $(5ab)^{\frac{2}{3}}$

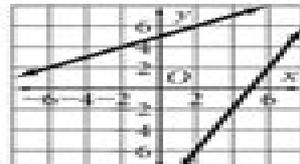
## Practice 7-5

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.  $\frac{2x^2 + 3}{4x} - \frac{3}{4}$ ; 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.  $\frac{17}{3}$  15.  $\frac{16}{3}$  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

1. 
2. 

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**Mark Steyvers**



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web feb 5 2019 for a non isolated smps supply i think we either first rectify it and then pass it through the switching regulator or we first pass the input ac voltage through a switching regulator to get the desired voltage and then rectify it to get a dc voltage

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web may 23 2017 a simplified block diagram of an smps which converts ac input to a regulated dc is shown in the following image although there are many number of design types for an smps power supply all the designs will be

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web the block diagram of a linear power supply is as shown in the following figure in spite of the above disadvantages linear power supplies are widely used in low noise amplifiers test equipment control circuits in addition they

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web smps rely on pwm to control the average value of the output voltage the average value of the repetitive pulse waveform depends on the area under the waveform as load increases output voltage tends to fall most switching power supplies

regulate their output using the method called pulse width modulation pwm

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web feb 25 2021 fig block diagram of smps the working of smps is clearly explained in the above block diagram and each block is explained properly in the following section input section the input supply of our

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web below is a conceptual circuit diagram of a typical off line smps this tutorial will introduce you to its basic operation how switching power supply smps works ac power first passes through fuses and a line filter then it is rectified by a full wave bridge rectifier

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web hence a smps can be used to convert ac to dc such as in a desktop computer power supply or dc to dc either step up or step down in many different battery powered systems fig 3 0 1 shows a block diagram example of a typical smps with an ac mains line input and a regulated dc output

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web block diagram of a mains operated ac dc smps with output voltage regulation input rectifier stage ac half wave and full wave rectified signals if the smps has an ac input then the first stage is to convert the input to dc this is called rectification an smps with a dc input does not require this stage

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web apr 29 2020 forward converter in a forward converter the choke carries the current when the transistor is conducting as well as when it is not the diode carries the current during the off period of the transistor therefore energy flows into the load during both the periods

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web the figure given below represents the functional block diagram of smps initially the unregulated ac input signal from the source is provided to the input rectifier and filter circuit here the ac input signal is rectified to generate a dc signal and further smoothed to remove high frequency noise component from it

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web smps regulates the output power by varying the on to off time using minimum voltage so that efficiency is very high compared to the linear power supply what is inside a smps fig 1 simple block diagram showing different functions of smps

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web 1 answer sorted by 1 you got part of the answer in the comments because mains frequency is lower than the operating frequency of the power supply up to a point the higher the frequency the smaller the magnetics can be typical mains

frequencies are well below that point

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