

# Chapter 7 Answers

## Practice 7-1

1. 8    2. 8    3. 60    4. 240    5. 2,635    6. 1.92  
7. 0.8125    8. 9    9. 1500    10. 8.75    11. 3.44  
12. 7    13. 110    14. 30    15. 16    16. 119  
17. 12    18. 48    19. 40    20. 56

## Practice 7-2

1.  $\sqrt{51}$     2.  $4\sqrt{7}$     3.  $2\sqrt{65}$     4.  $\sqrt{7}$   
5.  $2\sqrt{21}$     6.  $18\sqrt{2}$     7.  $210 \text{ in.}^2$     8.  $24\sqrt{10} \text{ cm}^2$   
9.  $35\sqrt{114} \text{ ft}^2$     10. 46 in.    11. 78 ft    12. 279 cm  
13. 19 m    14. acute    15. right    16. obtuse  
17. right    18. obtuse    19. acute

## Practice 7-3

1.  $x = 2; y = \sqrt{3}$     2.  $a = 4.5; b = 4.5\sqrt{3}$   
3.  $c = \frac{80\sqrt{3}}{3}; d = \frac{20\sqrt{3}}{3}$     4.  $8\sqrt{2}$     5.  $14\sqrt{2}$   
6.  $\frac{28\sqrt{3}}{3}$     7. 2    8.  $x = 15; y = 15\sqrt{3}$     9.  $3\sqrt{2}$   
10. 42 cm    11. 5.9 in.    12. 10.4 ft, 12 ft    13.  $170 \text{ in.}^2$   
14.  $w = \frac{10\sqrt{3}}{3}; x = 5; y = 5\sqrt{2}; z = \frac{2\sqrt{2}}{3}$     15.  $a = 4;$   
 $b = 3$     16.  $p = 4\sqrt{3}; q = 4\sqrt{3}; r = 8; s = 4\sqrt{6}$

## Practice 7-4

1.  $48 \text{ cm}^2$     2.  $784 \text{ in.}^2$     3.  $11.4 \text{ ft}^2$     4.  $90 \text{ m}^2$   
5.  $2400 \text{ in.}^2$     6.  $374 \text{ ft}^2$     7.  $160 \text{ cm}^2$     8.  $176.25 \text{ in.}^2$   
9.  $54 \text{ ft}^2$     10. 42.5 square units    11.  $96\sqrt{3}$  square units  
12.  $36\sqrt{3}$  square units    13.  $45 \text{ cm}^2$     14.  $226.2 \text{ in.}^2$   
15.  $49,500 \text{ m}^2$

## Practice 7-5

1.  $x = 7; y = 3.5\sqrt{3}$     2.  $a = 60; c = \frac{8\sqrt{3}}{3}; d = \frac{8\sqrt{3}}{3}$   
3.  $p = 4\sqrt{3}; q = 8; x = 30$     4.  $m\angle 1 = 45; m\angle 2 = 45;$   
 $m\angle 3 = 90; m\angle 4 = 90$     5.  $m\angle 5 = 60; m\angle 6 = 30;$   
 $m\angle 7 = 120$     6.  $m\angle 8 = 60; m\angle 9 = 30; m\angle 10 = 60$   
7.  $12\sqrt{3}$     8.  $36.75\sqrt{3}$     9.  $75\sqrt{3}$     10.  $120 \text{ in.}^2$   
11.  $137 \text{ in.}^2$     12.  $97 \text{ in.}^2$

## Practice 7-6

1.  $32\pi$     2.  $16\pi$     3.  $7.8\pi$     4. Samples:  $\overline{DFA}, \overline{ABF}$   
5. Samples:  $\overline{FE}, \overline{FD}$     6. Samples:  $\overline{FEB}, \overline{EDA}$   
7. Samples:  $\overline{FE}, \overline{ED}$     8.  $\angle ACB$     9.  $\angle FCD$   
10. 32    11. 43    12. 54    13. 39    14. 71  
15. 90    16. 50    17. 220    18. 140    19. 220  
20. 130    21.  $6\pi \text{ in.}$     22.  $16\pi \text{ cm}$     23.  $\frac{3}{4}\pi \text{ m}$

## Practice 7-7

1.  $49\pi$     2. 21.2    3.  $\frac{92}{5}\pi$     4.  $\frac{92}{5}\pi - 21.2$     5.  $\frac{1}{3}\pi$   
or  $\frac{\pi}{3}$     6.  $\frac{1}{3}$     7.  $\frac{1}{10}\pi$  or  $\frac{\pi}{10}$     8.  $\frac{\pi}{10} - \frac{1}{3}$     9.  $4\pi$   
10.  $\frac{12}{5}\pi$     11.  $\frac{2}{3}\pi$     12.  $\frac{3}{2}\pi$     13.  $\frac{12}{5}\pi$     14.  $6\pi$   
15.  $\frac{92}{5}\pi$     16.  $\frac{92}{5}\pi$     17.  $\frac{\pi}{5}$     18. 3    19. 2  
20. 10

## Practice 7-8

1. 8.7%    2. 10.9%    3. 15.3%    4.  $\frac{3}{10}$     5.  $\frac{7}{10}$   
6.  $\frac{3}{5}$     7.  $\frac{1}{10}$     8. 1    9.  $\frac{1}{3}$     10. 22.2%    11. 4.0%  
12. 37.5%    13. 20%    14. 50%    15. 40%  
16.  $33\frac{1}{3}\%$

## Reteaching 7-1

1. Samples:



2. Samples:



3.  $20 \text{ cm}^2$     4.  $55 \text{ in.}^2$     5. 6 m    6. 8 ft    7. 4 in.

8. Samples:



9. 5 in.    10. 23 cm    11. 9 ft

## Reteaching 7-2

1–2. Sample:



3. Sample: 9, 16, and 25    4. They are equal.    5. The sum of the squares of the two legs equals the square of the hypotenuse.    6.  $4\sqrt{5}$     7.  $7\sqrt{2}$     8. 8    9. 6

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**Lei Huang**



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web apr 26 2023 hey friends in this video we are designing smart street light step by step hope you will be able to learn how to design smart street light i am using ir se

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web part 26 what is ldr how it works how to use ldr with arduino and make automatic street lamp project understand analog

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web the main objective of this project is to save the unwanted consumption of light the lights are switched on only when required the smart street light system automatically switches the lamps based on the motion sensed by the pir sensor also the leds can be controlled from an android application the intensity of the leds can also be

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web jan 12 2022 what sensors do smart street lights use the sensors used in a street light project using arduino are ir sensors or ultrasonic sensors other components are arduino uno two ir sensors light depending resistor ldr two 220Ω resistors one 1 kΩ resistor two leds what are the advantages of smart street lights the smart

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web dec 8 2021 instead of turning on the street lights for the entire night we can design a low cost and efficient smart street light system using the arduino ir sensors or ultrasonic sensors and some other basic electronics components

automatic night lamp street light arduino maker pro - Jul 15 2023

web mar 13 2020 how does the sensor work the sensor works by creating a voltage divider the ne555 will only work when pin 4 is high else it will not work the characteristic of the sensor is that when there is light the resistance will be low

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web dec 21 2017 iot based smart street light management system abstract the aim of automated streetlight management system using iot is the conservation of energy by reducing electricity wastage as well as to reduce the manpower

automatic street light control circuit using ldr transistor - May 01 2022

web features it is a dark detector circuit based on ldr and a transistor bc 547 npn which automatically switches on and off the street light system it automatically switches on street lights when the sunlight goes below the visible region of our eyes e.g. in the evening after sunset

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web nov 3 2021 an automatic night light sensor is an electronic device that can sense the light sensitivity in the surrounding area determine whether it is day or night in this tutorial we are going to make an automatic night light sensor project it has various applications and can be utilized at so many places at night

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web jul 29 2021 an automatic street night light as the name suggests is an electronic street light that switches itself on off without the need for any human intervention it senses the intensity of light from its immediate surroundings determines whether it s day or night

automatic street light controller system using ldr and pir sensor - Jan 29 2022

web system can be implemented in park light street light room light smoke detection and person detection the automatic street light system does not need manual work to switch on and off lights the system itself detects whether there is a need for light or not keyword arduino uno ldr sensor pir sensor led resistor light control 1

**automatic street light control by detecting vehicle movement** - Sep 05 2022

web jan 1 2018 the proposed street lighting automation system is designed using light dependent resistor ldr ir sensor and raindrop sensor for day or night detection vehicle detection and rainfall detection

**smart city recent advances in intelligent street lighting** - Dec 08 2022

web nov 30 2022 this paper reviews the current trends in smart street lighting with emphasis on the selection of the type of lamp and the method of controlling the light intensity as well as the approach to connect the sensors together to remotely control the lights record the weather conditions and diagnose lamp failure remotely