

CHAPTER
8
Section Quiz
Lessons 8-1 Through 8-3

Choose the best answer.

1. What is the length of the altitude to the hypotenuse in a right triangle if this altitude divides the hypotenuse into segments of lengths 8 millimeters and 18 millimeters?

A 12 mm C 26 mm
 B 13 mm D 36 mm

Use the figure for Exercises 2 and 3.



2. If $XY = 10$ and $XW = 12$, what is VY ?

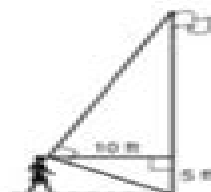
F 2 H 12
 G 4.4 J 14.4

3. If $XY = 9$ and $VW = 6$, what is VX ?

A 3 C 12
 B 4 D 13

4. To estimate the height of a flagpole, Marci, who is 5 feet tall, stands so that her lines of sight to the top and bottom of the pole form a 90° angle. What is the height of the pole to the nearest foot?

F 9 ft H 25 ft
 G 20 ft J 50 ft



5. One acute angle of a right triangle measures 28° . To the nearest tenth, what is the length of the side opposite that angle if the hypotenuse measures 16 meters?

A 7.5 m C 18.1 m
 B 14.1 m D 34.1 m

Use the figure for Exercises 6 and 7.



6. What is $\tan K$?

F $\frac{8}{17}$ H $\frac{15}{17}$
 G $\frac{8}{15}$ J $\frac{15}{8}$

7. To the nearest degree, what is $m\angle M$?

A 2° C 62°
 B 28° D 88°

8. A 24-foot ladder forms a 76° angle with the ground. The top of the ladder rests against a building. To the nearest inch, how high up the building does the ladder reach?

F 5 ft 10 in. H 18 ft 5 in.
 G 18 ft 1 in. J 23 ft 3 in.

9. What is $\cos 30^\circ$?

A $\frac{1}{\sqrt{3}}$ C $\frac{2}{\sqrt{3}}$
 B $\frac{\sqrt{3}}{2}$ D $\sqrt{3}$

10. To the nearest degree, what is the measure of the smallest angle of a right triangle whose legs measure 9 and 15?

F 31° H 53°
 G 37° J 59°

11. To the nearest degree, what angle does a hill with a grade of 11% make with a horizontal line?

A 6° C 79°
 B 11° D 84°

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S Ben Porath



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Table of Contents Geometry Lesson 4 Practice B Answers

1. Understanding the eBook Geometry Lesson 4 Practice B Answers
 - The Rise of Digital Reading Geometry Lesson 4 Practice B Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Lesson 4 Practice B Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Lesson 4 Practice B Answers
 - Personalized Recommendations
 - Geometry Lesson 4 Practice B Answers User Reviews and Ratings
 - Geometry Lesson 4 Practice B Answers and Bestseller Lists
5. Accessing Geometry Lesson 4 Practice B Answers Free and Paid eBooks
 - Geometry Lesson 4 Practice B Answers Public Domain eBooks
 - Geometry Lesson 4 Practice B Answers eBook Subscription Services
 - Geometry Lesson 4 Practice B Answers Budget-Friendly Options
6. Navigating Geometry Lesson 4 Practice B Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometry Lesson 4 Practice B Answers Compatibility with Devices
 - Geometry Lesson 4 Practice B Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Lesson 4 Practice B Answers
 - Highlighting and Note-Taking Geometry Lesson 4 Practice B Answers
 - Interactive Elements Geometry Lesson 4 Practice B Answers
8. Staying Engaged with Geometry Lesson 4 Practice B Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Geometry Lesson 4 Practice B Answers
- 9. Balancing eBooks and Physical Books Geometry Lesson 4 Practice B Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Lesson 4 Practice B Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Geometry Lesson 4 Practice B Answers
 - Setting Reading Goals Geometry Lesson 4 Practice B Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Geometry Lesson 4 Practice B Answers
 - Fact-Checking eBook Content of Geometry Lesson 4 Practice B Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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