

The Right Triangle Trigonometric Ratios – Although we won't prove this fact until a future geometry course, all right triangles that have a common acute angle are similar. Thus, the ratios of their corresponding sides are equal. A very long time ago, these ratios were given names. These trigonometric ratios (trig ratios) will be introduced through the following exercises, each of which refer to the diagram below.



In a right triangle:

$$\text{tangent of an angle} = \frac{\text{leg opposite of the angle}}{\text{leg adjacent to the angle}}$$

Exercise #3: $\tan A = 3/4$ $\tan C = 4/3$

$$\text{sine of an angle} = \frac{\text{leg opposite of the angle}}{\text{hypotenuse}}$$

Exercise #4: $\sin A = 3/5$ $\sin C = 4/5$

$$\text{cosine of an angle} = \frac{\text{leg adjacent to the angle}}{\text{hypotenuse}}$$

Exercise #5: $\cos A = 4/5$ $\cos C = 3/5$

A Helpful Mnemonic For Remembering the Ratios:

SOH-CAH-TOA

Sine is Opposite over Hypotenuse – Cosine is Adjacent over Hypotenuse – Tangent is Opposite over Adjacent

Exercise #3: Find each of the following ratios for the right triangle shown below.

(a) $\sin A = 12/13$

(b) $\tan B = 12/5$

(c) $\cos A = 12/13$

(d) $\tan A = 5/12$

(e) $\cos B = 5/13$

(f) $\sin B = 12/13$



Answers Algebra 1 Unit 8 Right Triangle Trigonometry

13

Marvin L. Bittinger



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Table of Contents Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13

1. Understanding the eBook Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
 - The Rise of Digital Reading Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
 - 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 Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
 - Personalized Recommendations
 - Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13 User Reviews and Ratings
 - Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13 and Bestseller Lists
5. Accessing Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13 Free and Paid eBooks

- Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13 Public Domain eBooks
 - Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13 eBook Subscription Services
 - Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13 Budget-Friendly Options
6. Navigating Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13 eBook Formats
- ePub, PDF, MOBI, and More
 - Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13 Compatibility with Devices
 - Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
 - Highlighting and Note-Taking Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
 - Interactive Elements Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
8. Staying Engaged with Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
9. Balancing eBooks and Physical Books Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
- Setting Reading Goals Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
- Fact-Checking eBook Content of Answers Algebra 1 Unit 8 Right Triangle Trigonometry 13
 - 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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