

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 **O**pposite over **H**ypotenuse – Cosine is **A**djacent over **H**ypotenuse – Tangent is **O**pposite over **A**djacent

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) $\sin B = 12/13$



Algebra 1 Unit 8 Triangle Trigonometry

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Table of Contents Algebra 1 Unit 8 Triangle Trigonometry

1. Understanding the eBook Algebra 1 Unit 8 Triangle Trigonometry
 - The Rise of Digital Reading Algebra 1 Unit 8 Triangle Trigonometry
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 1 Unit 8 Triangle Trigonometry
 - 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 Algebra 1 Unit 8 Triangle Trigonometry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 1 Unit 8 Triangle Trigonometry

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

- Fact-Checking eBook Content of Algebra 1 Unit 8 Triangle Trigonometry
- 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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