

4-1 Study Guide and Intervention

Right Triangle Trigonometry

Values of Trigonometric Ratios The side lengths of a right triangle and a reference angle θ can be used to form six trigonometric ratios that define the **trigonometric functions** known as **sine**, **cosine**, and **tangent**. The **cosecant**, **secant**, and **cotangent** ratios are reciprocals of the sine, cosine, and tangent ratios, respectively. Therefore, they are known as **reciprocal functions**.

Let θ be an acute angle in a right triangle and the abbreviations opp, adj, and hyp refer to the lengths of the side opposite θ , the side adjacent to θ , and the hypotenuse, respectively.

Then the six trigonometric functions of θ are defined as follows.

$$\text{sine } (\theta) = \sin \theta = \frac{\text{opp}}{\text{hyp}} \quad \text{cosine } (\theta) = \cos \theta = \frac{\text{adj}}{\text{hyp}} \quad \text{tangent } (\theta) = \tan \theta = \frac{\text{opp}}{\text{adj}}$$

$$\text{cosecant } (\theta) = \csc \theta = \frac{\text{hyp}}{\text{opp}} \quad \text{secant } (\theta) = \sec \theta = \frac{\text{hyp}}{\text{adj}} \quad \text{cotangent } (\theta) = \cot \theta = \frac{\text{adj}}{\text{opp}}$$



Example: Find the exact values of the six trigonometric functions of θ .
Use the Pythagorean Theorem to determine the length of the hypotenuse.



$$\begin{aligned} 15^2 + 3^2 &= c^2 \\ 234 &= c^2 \\ c &= \sqrt{234} \text{ or } 3\sqrt{26} \end{aligned}$$

$a = 15$, $b = 3$
Simplify.
Take the positive square root.

$$\sin \theta = \frac{\text{opp}}{\text{hyp}} \text{ or } \frac{3}{3\sqrt{26}} \text{ or } \frac{\sqrt{26}}{26}$$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}} \text{ or } \frac{15}{3\sqrt{26}} \text{ or } \frac{\sqrt{26}}{26}$$

$$\tan \theta = \frac{\text{opp}}{\text{adj}} \text{ or } \frac{3}{15} \text{ or } \frac{1}{5}$$

$$\csc \theta = \frac{\text{hyp}}{\text{opp}} \text{ or } \frac{3\sqrt{26}}{3} \text{ or } \frac{26}{3}$$

$$\sec \theta = \frac{\text{hyp}}{\text{adj}} \text{ or } \frac{3\sqrt{26}}{15} \text{ or } \frac{\sqrt{26}}{5}$$

$$\cot \theta = \frac{\text{adj}}{\text{opp}} \text{ or } \frac{15}{3} \text{ or } 5$$

Exercises

Find the exact values of the six trigonometric functions of θ .



$$\begin{aligned} \sin \theta &= \frac{2\sqrt{5}}{5}, \cos \theta = \frac{\sqrt{5}}{5}, \tan \theta = 2, \\ \csc \theta &= \frac{\sqrt{5}}{2}, \sec \theta = \sqrt{5}, \cot \theta = \frac{1}{2} \end{aligned}$$

Use the given trigonometric function value of the acute angle θ to find the exact values of the five remaining trigonometric function values of θ .

3. $\sin \theta = \frac{3}{7}$

$$\cos \theta = \frac{2\sqrt{10}}{7}, \tan \theta = \frac{3\sqrt{10}}{20},$$

$$\csc \theta = \frac{7}{3}, \sec \theta = \frac{7\sqrt{10}}{20}, \cot \theta = \frac{2\sqrt{10}}{3}$$



$$\begin{aligned} \sin \theta &= \frac{7}{19}, \cos \theta = \frac{2\sqrt{78}}{19}, \tan \theta = \frac{7\sqrt{78}}{156}, \csc \theta = \frac{19}{7}, \\ \sec \theta &= \frac{19\sqrt{78}}{156}, \cot \theta = \frac{2\sqrt{78}}{7} \end{aligned}$$

4. $\sec \theta = \frac{8}{5}$

$$\sin \theta = \frac{\sqrt{39}}{8}, \cos \theta = \frac{5}{8}, \tan \theta = \frac{\sqrt{39}}{5},$$

$$\csc \theta = \frac{8\sqrt{39}}{39}, \cot \theta = \frac{5\sqrt{39}}{39}$$

Trigonometric Identities Study Guide And Intervention Work

M Tight

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Table of Contents Trigonometric Identities Study Guide And Intervention Work

1. Understanding the eBook Trigonometric Identities Study Guide And Intervention Work
 - The Rise of Digital Reading Trigonometric Identities Study Guide And Intervention Work
 - Advantages of eBooks Over Traditional Books
2. Identifying Trigonometric Identities Study Guide And Intervention Work
 - 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 Trigonometric Identities Study Guide And Intervention Work
 - User-Friendly Interface
4. Exploring eBook Recommendations from Trigonometric Identities Study Guide And Intervention Work
 - Personalized Recommendations
 - Trigonometric Identities Study Guide And Intervention Work User Reviews and Ratings

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