

In addition to the three trigonometric ratios previously discussed, there are three other trigonometric ratios called cosecant, secant, and cotangent, abbreviated *csc*, *sec*, and *cot*, respectively.

### Math Reasoning

**Generalize** Explain the relationship between sine and cosecant, cosine and secant, and tangent and cotangent ratios.

They are reciprocals of each other.

### Caution

Writing " $\sin = \frac{1}{\sin}$ " is not a valid trigonometric ratio because there is no angle measure included with  $\sin$ .

### Cosecant, Secant, and Cotangent

$$\text{cosecant of } \angle A = \frac{\text{length of hypotenuse}}{\text{length of leg opposite } \angle A} = \frac{c}{a}$$

$$\text{secant of } \angle A = \frac{\text{length of hypotenuse}}{\text{length of leg adjacent to } \angle A} = \frac{c}{b}$$

$$\text{cotangent of } \angle A = \frac{\text{length of leg adjacent to } \angle A}{\text{length of leg opposite } \angle A} = \frac{b}{a}$$

### Example 1 Finding Trigonometric Ratios

- a.** Using the right triangle, find  $\sin B$ ,  $\cos B$ , and  $\tan B$ .

**SOLUTION**

$$\sin B = \frac{\text{opposite leg}}{\text{hypotenuse}} = \frac{5}{13}$$

$$\cos B = \frac{\text{adjacent leg}}{\text{hypotenuse}} = \frac{12}{13}$$

$$\tan B = \frac{\text{opposite leg}}{\text{adjacent leg}} = \frac{5}{12}$$



### Example 1

Students find the trigonometric ratios for a right triangle.

### Additional Example 1

- a.** Using the right triangle, find  $\sin B$ ,  $\cos B$ , and  $\tan B$ .



$$\sin B = \frac{7}{25}; \cos B = \frac{24}{25}; \tan B = \frac{7}{24}$$

- b.** Using the right triangle, find

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## Teacher Web

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### **Table of Contents Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web**

1. Understanding the eBook Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - The Rise of Digital Reading Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - Advantages of eBooks Over Traditional Books
2. Identifying Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - 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 Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - Personalized Recommendations
  - Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web User Reviews and Ratings
  - Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web and Bestseller Lists

5. Accessing Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web Free and Paid eBooks
  - Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web Public Domain eBooks
  - Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web eBook Subscription Services
  - Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web Budget-Friendly Options
6. Navigating Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web eBook Formats
  - ePub, PDF, MOBI, and More
  - Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web Compatibility with Devices
  - Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - Highlighting and Note-Taking Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - Interactive Elements Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
8. Staying Engaged with Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
9. Balancing eBooks and Physical Books Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - Setting Reading Goals Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - Fact-Checking eBook Content of Lesson 8 2 Problem Solving Trigonometric Ratios Teacher Web
  - 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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