

## 5-1 Trigonometric Identities

Find the value of each expression using the given information.

1. If  $\cot \theta = \frac{5}{7}$ , find  $\tan \theta$ .

*SOLUTION:*

$$\begin{aligned}\tan \theta &= \frac{1}{\cot \theta} \\ &= \frac{1}{\frac{5}{7}} \\ &= \frac{7}{5}\end{aligned}$$

3. If  $\tan \alpha = \frac{1}{5}$ , find  $\cot \alpha$ .

*SOLUTION:*

$$\begin{aligned}\cot \alpha &= \frac{1}{\tan \alpha} \\ &= \frac{1}{\frac{1}{5}} \\ &= \frac{5}{1} \\ &= 5\end{aligned}$$

5. If  $\cos x = \frac{1}{6}$  and  $\sin x = \frac{\sqrt{35}}{6}$ , find  $\cot x$ .

*SOLUTION:*

$$\begin{aligned}\cot x &= \frac{\cos x}{\sin x} \\ &= \frac{\frac{1}{6}}{\frac{\sqrt{35}}{6}} \\ &= \frac{1}{\sqrt{35}} \\ &= \frac{1}{\sqrt{35}} \cdot \frac{\sqrt{35}}{\sqrt{35}} \\ &= \frac{\sqrt{35}}{35}\end{aligned}$$

7. If  $\csc \alpha = \frac{7}{3}$  and  $\cot \alpha = \frac{2\sqrt{10}}{3}$ , find  $\sec \alpha$ .

*SOLUTION:*

Use the reciprocal identity  $\csc \alpha = \frac{1}{\sin \alpha}$  to find  $\sin \alpha$ .

$$\begin{aligned}\csc \alpha &= \frac{1}{\sin \alpha} \\ \frac{7}{3} &= \frac{1}{\sin \alpha} \\ 7 \sin \alpha &= 3 \\ \sin \alpha &= \frac{3}{7}\end{aligned}$$

Use the quotient identity  $\cot \alpha = \frac{\cos \alpha}{\sin \alpha}$  to find  $\cos \alpha$ .

$$\begin{aligned}\cot \alpha &= \frac{\cos \alpha}{\sin \alpha} \\ \frac{2\sqrt{10}}{3} &= \frac{\cos \alpha}{\frac{3}{7}} \\ \frac{2\sqrt{10}}{3} \cdot \frac{3}{7} &= \cos \alpha \\ \frac{2\sqrt{10}}{7} &= \cos \alpha \\ \cos \alpha &= \frac{2\sqrt{10}}{7}\end{aligned}$$

Use the reciprocal identity  $\sec \alpha = \frac{1}{\cos \alpha}$  to find  $\sec \alpha$ .

$$\begin{aligned}\sec \alpha &= \frac{1}{\cos \alpha} \\ &= \frac{1}{\frac{2\sqrt{10}}{7}} \\ &= \frac{7}{2\sqrt{10}} \\ &= \frac{7}{2\sqrt{10}} \cdot \frac{\sqrt{10}}{\sqrt{10}} \\ &= \frac{7\sqrt{10}}{2(10)} \\ &= \frac{7\sqrt{10}}{20}\end{aligned}$$

# Using Trigonometric Identities Tesccc 2012 Worksheet

**RJ Shavelson**



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### **Table of Contents Using Trigonometric Identities Tesccc 2012 Worksheet**

1. Understanding the eBook Using Trigonometric Identities Tesccc 2012 Worksheet
  - The Rise of Digital Reading Using Trigonometric Identities Tesccc 2012 Worksheet
  - Advantages of eBooks Over Traditional Books
2. Identifying Using Trigonometric Identities Tesccc 2012 Worksheet
  - 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 Using Trigonometric Identities Tesccc 2012 Worksheet
  - User-Friendly Interface
4. Exploring eBook Recommendations from Using Trigonometric Identities Tesccc 2012 Worksheet

- Personalized Recommendations
- Using Trigonometric Identities Tesccc 2012 Worksheet User Reviews and Ratings
- Using Trigonometric Identities Tesccc 2012 Worksheet and Bestseller Lists
- 5. Accessing Using Trigonometric Identities Tesccc 2012 Worksheet Free and Paid eBooks
  - Using Trigonometric Identities Tesccc 2012 Worksheet Public Domain eBooks
  - Using Trigonometric Identities Tesccc 2012 Worksheet eBook Subscription Services
  - Using Trigonometric Identities Tesccc 2012 Worksheet Budget-Friendly Options
- 6. Navigating Using Trigonometric Identities Tesccc 2012 Worksheet eBook Formats
  - ePub, PDF, MOBI, and More
  - Using Trigonometric Identities Tesccc 2012 Worksheet Compatibility with Devices
  - Using Trigonometric Identities Tesccc 2012 Worksheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Using Trigonometric Identities Tesccc 2012 Worksheet
  - Highlighting and Note-Taking Using Trigonometric Identities Tesccc 2012 Worksheet
  - Interactive Elements Using Trigonometric Identities Tesccc 2012 Worksheet
- 8. Staying Engaged with Using Trigonometric Identities Tesccc 2012 Worksheet
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Using Trigonometric Identities Tesccc 2012 Worksheet
- 9. Balancing eBooks and Physical Books Using Trigonometric Identities Tesccc 2012 Worksheet
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Using Trigonometric Identities Tesccc 2012 Worksheet
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Using Trigonometric Identities Tesccc 2012 Worksheet
  - Setting Reading Goals Using Trigonometric Identities Tesccc 2012 Worksheet
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Using Trigonometric Identities Tesccc 2012 Worksheet

- Fact-Checking eBook Content of Using Trigonometric Identities Tesccc 2012 Worksheet
  - 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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