

$$\sin \theta = \frac{1}{\csc \theta}$$

$$\csc \theta = \frac{1}{\sin \theta}$$

$$\cos \theta = \frac{1}{\sec \theta}$$

$$\sec \theta = \frac{1}{\cos \theta}$$

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\tan \theta = \frac{1}{\cot \theta}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$

$$\cot \theta = \frac{1}{\tan \theta}$$

$$\cos^2 \theta + \sin^2 \theta = 1$$

$$\sin^2 \theta = 1 - \cos^2 \theta$$

$$\cos^2 \theta = 1 - \sin^2 \theta$$

$$1 + \tan^2 \theta = \sec^2 \theta$$

$$\tan^2 \theta = \sec^2 \theta - 1$$

$$-\tan^2 \theta = 1 - \sec^2 \theta$$

$$1 + \cot^2 \theta = \csc^2 \theta$$

$$\cot^2 \theta = \csc^2 \theta - 1$$

$$-\cot^2 \theta = 1 - \csc^2 \theta$$

Example 1: Use Trigonometric Identities to write each expression in terms of a single trigonometric identity or a constant.

a. $\tan \theta \cos \theta$
 $\frac{\sin \theta}{\cos \theta} \cdot \frac{\cos \theta}{1}$

$$\boxed{\sin \theta}$$

b. $\frac{1 - \cos^2 \theta}{\cos^2 \theta} = \frac{\sin^2 \theta}{\cos^2 \theta} = \boxed{\tan^2 \theta}$

Strategies:
 * Leave sine or cosine
 * Try to replace anything else w/ sine/cosine

c. $\cos \theta \csc \theta$ replace
 $\frac{\cos \theta}{1} \cdot \frac{1}{\sin \theta} = \frac{\cos \theta}{\sin \theta}$
 $= \boxed{\cot \theta}$

d. $\frac{\sin \theta \sec \theta}{\tan \theta} = \frac{\frac{\sin \theta}{1} \cdot \frac{1}{\cos \theta}}{\tan \theta} = \frac{\frac{\sin \theta}{\cos \theta}}{\tan \theta}$
 $= \frac{\tan \theta}{\tan \theta} = \boxed{1}$

Example 2: Simplify the complex fraction.

a. $\frac{\frac{2}{3}}{\frac{15}{42}} = \frac{2}{3} \cdot \frac{42}{15} = \frac{5}{2}$

b. $\frac{\frac{3}{4}}{\frac{3}{15}}$

change $\div$ to $\times$ & flip the fraction!

d. $\frac{\frac{3}{2}}{\frac{3}{15}}$

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Table of Contents Answer Key Trig Identities Lesson 1 Identities

1. Understanding the eBook Answer Key Trig Identities Lesson 1 Identities
 - The Rise of Digital Reading Answer Key Trig Identities Lesson 1 Identities
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key Trig Identities Lesson 1 Identities
 - 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 Answer Key Trig Identities Lesson 1 Identities
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key Trig Identities Lesson 1 Identities
 - Personalized Recommendations

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

- 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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