

# Trigonometric Identities

## Quotient Identities

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

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

## Reciprocal Identities

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

$$\operatorname{cosec} \theta = \frac{1}{\sin \theta}$$

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

## Pythagorean Identities

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

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

$$1 + \cot^2 \theta = \operatorname{cosec}^2 \theta$$

## Co-Function Identities

$$\cos \left[ \frac{\pi}{2} - \theta \right] = \sin \theta$$

$$\sin \left[ \frac{\pi}{2} - \theta \right] = \cos \theta$$

$$\cot \left[ \frac{\pi}{2} - \theta \right] = \tan \theta$$

$$\tan \left[ \frac{\pi}{2} - \theta \right] = \cot \theta$$

$$\sec \left[ \frac{\pi}{2} - \theta \right] = \operatorname{cosec} \theta$$

$$\operatorname{cosec} \left[ \frac{\pi}{2} - \theta \right] = \sec \theta$$

## Even-Odd Identities

$$\sin(-\theta) = -\sin \theta$$

$$\cos(-\theta) = \cos \theta$$

$$\tan(-\theta) = -\tan \theta$$

$$\cot(-\theta) = -\cot \theta$$

$$\sec(-\theta) = \sec \theta$$

$$\operatorname{cosec}(-\theta) = -\operatorname{cosec} \theta$$

## Half-Angle Formulas

$$\sin \left[ \frac{\theta}{2} \right] = \pm \sqrt{\frac{1 - \cos \theta}{2}}$$

$$\cos \left[ \frac{\theta}{2} \right] = \pm \sqrt{\frac{1 + \cos \theta}{2}}$$

$$\begin{aligned} \tan \left[ \frac{\theta}{2} \right] &= \frac{1 - \cos \theta}{\sin \theta} \\ &= \frac{\sin \theta}{1 + \cos \theta} \\ &= \pm \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}} \end{aligned}$$

# Trigonometric Functions 20tesccc

**Scott C. Dulebohn**



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## **Table of Contents Trigonometric Functions 20tesccc**

1. Understanding the eBook Trigonometric Functions 20tesccc
  - The Rise of Digital Reading Trigonometric Functions 20tesccc
  - Advantages of eBooks Over Traditional Books
2. Identifying Trigonometric Functions 20tesccc
  - 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 Functions 20tesccc
  - User-Friendly Interface
4. Exploring eBook Recommendations from Trigonometric Functions 20tesccc
  - Personalized Recommendations
  - Trigonometric Functions 20tesccc User Reviews and Ratings
  - Trigonometric Functions 20tesccc and Bestseller Lists
5. Accessing Trigonometric Functions 20tesccc Free and Paid eBooks

- Trigonometric Functions 20tesccc Public Domain eBooks
- Trigonometric Functions 20tesccc eBook Subscription Services
- Trigonometric Functions 20tesccc Budget-Friendly Options
- 6. Navigating Trigonometric Functions 20tesccc eBook Formats
  - ePub, PDF, MOBI, and More
  - Trigonometric Functions 20tesccc Compatibility with Devices
  - Trigonometric Functions 20tesccc Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Trigonometric Functions 20tesccc
  - Highlighting and Note-Taking Trigonometric Functions 20tesccc
  - Interactive Elements Trigonometric Functions 20tesccc
- 8. Staying Engaged with Trigonometric Functions 20tesccc
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Trigonometric Functions 20tesccc
- 9. Balancing eBooks and Physical Books Trigonometric Functions 20tesccc
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Trigonometric Functions 20tesccc
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Trigonometric Functions 20tesccc
  - Setting Reading Goals Trigonometric Functions 20tesccc
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Trigonometric Functions 20tesccc
  - Fact-Checking eBook Content of Trigonometric Functions 20tesccc
  - 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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