# TRIGONOMETRY

# LAWS AND IDENTITIES

#### TANGENT IDENTITIES

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

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

#### RECIPROCAL IDENTITIES

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

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

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

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

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

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

## **PYTHAGOREAN IDENTITIES**

$$\sin^2 \theta + \cos^2 \theta = 1$$
$$\tan^2 \theta + 1 = \sec^2 \theta$$
$$\cot^2 \theta + 1 = \csc^2 \theta$$

## PERIODIC IDENTITIES

$$\sin(\theta + 2\pi n) = \sin \theta$$
  
 $\cos(\theta + 2\pi n) = \cos \theta$   
 $\tan(\theta + \pi n) = \tan \theta$ 

$$\csc(\theta + 2\pi n) = \csc\theta$$

$$sec(\theta + 2\pi n) = sec \theta$$
  
 $cot(\theta + \pi n) = cot \theta$ 

#### **EVEN/ODD IDENTITIES**

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

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

$$csc(-\theta) = -csc\theta$$

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

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

#### DOUBLE ANGLE IDENTITIES

$$\sin(2\theta) = 2\sin\theta\cos\theta$$

$$cos(2\theta) = cos^2\theta - sin^2\theta$$

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

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

$$\tan(2\theta) = \frac{2 \tan \theta}{1 - \tan^2 \theta}$$

## HALF ANGLE IDENTITIES

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

$$\cos\left(\frac{\theta}{2}\right) = \pm \sqrt{\frac{1+\cos\theta}{2}}$$

$$\tan\left(\frac{\theta}{2}\right) = \pm \sqrt{\frac{1-\cos\theta}{1+\cos\theta}}$$

## LAW OF COSINES

$$a^2 = b^2 + c^2 - 2bc\cos\alpha$$

$$b^2 = a^2 + c^2 - 2ac\cos\beta$$

$$c^2 = a^2 + b^2 - 2ab\cos\gamma$$

## PRODUCT TO SUM IDENTITIES

$$\sin \alpha \sin \beta = \frac{1}{2} [\cos (\alpha - \beta) - \cos (\alpha + \beta)]$$

$$\cos \alpha \cos \beta = \frac{1}{2} [\cos(\alpha - \beta) + \cos(\alpha + \beta)]$$

$$\sin \alpha \cos \beta = \frac{1}{2} [\sin(\alpha + \beta) + \sin(\alpha - \beta)]$$

$$\cos \alpha \sin \beta = \frac{1}{2} [\sin(\alpha + \beta) - \sin(\alpha - \beta)]$$

## SUM TO PRODUCT IDENTITIES

$$\sin \alpha + \sin \beta = 2 \sin \left(\frac{\alpha + \beta}{2}\right) \cos \left(\frac{\alpha - \beta}{2}\right)$$

$$\sin \alpha - \sin \beta = 2 \cos \left(\frac{\alpha + \beta}{2}\right) \sin \left(\frac{\alpha - \beta}{2}\right)$$

$$\cos \alpha + \cos \beta = 2 \cos \left(\frac{\alpha + \beta}{2}\right) \cos \left(\frac{\alpha - \beta}{2}\right)$$

$$\cos \alpha - \cos \beta = -2 \sin \left(\frac{\alpha + \beta}{2}\right) \sin \left(\frac{\alpha - \beta}{2}\right)$$

## SUM/DIFFERENCES IDENTITIES

$$\sin(\alpha \pm \beta) = \sin \alpha \cos \beta \pm \cos \alpha \sin \beta$$

$$\cos(\alpha \pm \beta) = \cos \alpha \cos \beta \mp \sin \alpha \sin \beta$$

$$\tan(\alpha \pm \beta) = \frac{\tan \alpha \pm \tan \beta}{1 \mp \tan \alpha \tan \beta}$$

# MOLLWEIDE'S FORMULA

$$\frac{a+b}{c} = \frac{\cos\left[\frac{1}{2}(\alpha-\beta)\right]}{\sin\left(\frac{1}{2}\gamma\right)}$$

## LAW OF SINES

$$\frac{\sin \alpha}{\alpha} = \frac{\sin \beta}{\delta} = \frac{\sin \gamma}{c}$$

## LAW OF TANGENTS

$$\frac{a-b}{a+b} = \frac{\tan\left[\frac{1}{2}(\alpha-\beta)\right]}{\tan\left[\frac{1}{2}(\alpha+\beta)\right]}$$

$$\frac{b-c}{b+c} = \frac{\tan\left[\frac{1}{2}(\beta-\gamma)\right]}{\tan\left[\frac{1}{2}(\beta+\gamma)\right]}$$

$$\frac{\alpha - c}{\alpha + c} = \frac{\tan \left[\frac{1}{2}(\alpha - \gamma)\right]}{\tan \left[\frac{1}{2}(\alpha + \gamma)\right]}$$

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## COFUNCTION IDENTITIES

$$\sin\left(\frac{\pi}{2} - \theta\right) = \cos\theta$$

$$\csc\left(\frac{\pi}{2} - \theta\right) = \sec\theta$$

$$\tan\left(\frac{\pi}{2} - \theta\right) = \cot\theta$$

$$\cos\left(\frac{\pi}{2} - \theta\right) = \sin\theta$$

$$\sec\left(\frac{\pi}{2} - \theta\right) = \csc\theta$$

$$\cot\left(\frac{\pi}{2} - \theta\right) = \tan\theta$$

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# **Table of Contents Algebra Trig Study Guide**

- 1. Understanding the eBook Algebra Trig Study Guide
  - The Rise of Digital Reading Algebra Trig Study Guide
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Algebra Trig Study Guide
  - 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 Algebra Trig Study Guide
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Algebra Trig Study Guide
  - Personalized Recommendations
  - Algebra Trig Study Guide User Reviews and Ratings
  - Algebra Trig Study Guide and Bestseller Lists

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