# Trigonometric Identities

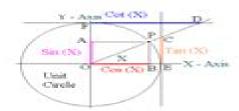
#### The six trigonometric functions/Reciprocals Identities

$$\sin x = \frac{opp}{hyp} = \frac{y}{r} = \frac{1}{\csc x}$$

$$\cos x = \frac{adj}{hyp} = \frac{x}{r} = \frac{1}{\sec x}$$

$$\cot x = \frac{opp}{adj} = \frac{y}{x} = \frac{\sin x}{\cos x}$$

$$\cot x = \frac{adj}{opp} = \frac{x}{y} = \frac{1}{\tan x} = \frac{\cos x}{\sin x}$$



#### Pythagorean Identities

$$\sin^2 x + \cos^2 x = 1$$
  
 $\tan^2 x - \sec^2 x = -1$ 

$$\cos^2 x = 1 - \sin^2 x$$
  
1 +  $\tan^2 x = \sec^2 x$ 

$$sin^2x = 1 - cos^2x$$
$$1 + cot^2x = csc^2x$$

# Sum or difference of two angles

$$sin(a + b) = sina cosb + cosa sinb$$
  
 $sin(a - b) = sina cosb - cosa sinb$   
 $tan(a + b) = \frac{tan a + tan b}{1 - tan a tan b}$ 

$$cos(a - b) = cosa cosb + sina sinb 
 $tan(a - b) = \frac{tan a - tan b}{1 + tan a tan b}$$$

cos(a + b) = cosa cosb - sina sinb

#### Double Angle Formulas

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

$$\cos 2x = \cos^2 x - \sin^2 x$$
  $\sin 2x = 2\sin x \cos x$ 

$$\tan 2x = \frac{2 \tan x}{1 - \tan^2 x}$$

$$\sin^2 x = \frac{1 - \cos 2x}{2}$$

$$\sin^2 x = \frac{1 - \cos 2x}{2}$$

$$\cos^2 x = \frac{1 + \cos 2x}{2}$$

$$\tan^2 x = \frac{1 - \cos 2x}{1 + \cos 2x}$$

$$\sin \frac{x}{2} = \pm \sqrt{\frac{1 - \cos x}{2}}$$

$$\cos \frac{x}{2} = \pm \sqrt{\frac{1 + \cos x}{2}}$$

$$\tan\frac{x}{2} = \pm\sqrt{\frac{1-\cos x}{1+\cos x}} = \frac{\sin x}{1+\cos x} = \frac{1-\cos x}{\sin x}$$

#### Reduction Formulas

$$sin(-x) = -sinx$$
  $cos(-x) = cosx$   
 $sin(x) = -sin(x - \pi)$   $cos(x) = -cos(x - \pi)$   
 $tan(-x) = -tanx$   $tan(x) = tan(x - \pi)$ 

$$\pm \sin x = \cos \left( x \pm \frac{\pi}{2} \right) \qquad \pm \cos x = \sin \left( x \pm \frac{\pi}{2} \right)$$

#### $a^2 = b^2 + c^2 - 2bc \cos A$ Law of costnes

(where A is the angle of a scalene △ opposite side a)

# Co-Functions

$$sinx = cos(90^{\circ} - x)$$
  $cosx = sin(90^{\circ} - x)$ 

$$tanx = cot(90^{\circ} - x)$$
  $secx = csc(90^{\circ} - x)$ 

#### Sum and Product Formulas

$$sina cosb = Valsin(a + b) + sin(a - b)1$$
  
 $cosa sinb = Valsin(a + b) - sin(a - b)1$ 

$$cosa cosb = V_2[cos(a + b) + cos(a - b)]$$
  
 $sina sinb = V_2[cos(a - b) - cos(a + b)]$ 

$$\sin x + \sin y = 2 \sin \left(\frac{x+y}{2}\right) \cos \left(\frac{x-y}{2}\right)$$
$$\cos x + \cos y = 2 \cos \left(\frac{x+y}{2}\right) \cos \left(\frac{x-y}{2}\right)$$

$$\sin x - \sin y = 2\cos\left(\frac{x+y}{2}\right)\sin\left(\frac{x-y}{2}\right)$$
$$\cos x - \cos y = -2\sin\left(\frac{x+y}{2}\right)\sin\left(\frac{x-y}{2}\right)$$

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# **Table of Contents Answer Sheet Verifying Trigonometric Identities**

- 1. Understanding the eBook Answer Sheet Verifying Trigonometric Identities
  - The Rise of Digital Reading Answer Sheet Verifying Trigonometric Identities
  - o Advantages of eBooks Over Traditional Books
- 2. Identifying Answer Sheet Verifying Trigonometric Identities
  - Exploring Different Genres
  - $\circ\,$  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 Sheet Verifying Trigonometric Identities
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Answer Sheet Verifying Trigonometric Identities
  - Personalized Recommendations
  - Answer Sheet Verifying Trigonometric Identities User Reviews and Ratings

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