

# 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

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

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

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

# Using Trigonometric Identities Tesccc Unit 5 Lesson

**R Pring**



### **Using Trigonometric Identities Tesccc Unit 5 Lesson :**

*Identities and Functions* Alpha & Omega Publishing, 2001-03-01      *A Guided Inquiry-Based Learning Module in Trigonometric Identities* Ryan Bernido, 2020-05-05 This module provides lesson exemplars and learning materials in understanding the Trigonometric Identities. The approach is Inquiry Based Learning which uses scaffold activities and guide questions to let learners learn on their own with minimal guidance from the teacher. This module has two parts. First part is for lesson exemplars which can be used by teachers as guide to deliver lesson on Trigonometric Identities using Guided Inquiry Based Learning while part 2 is for learning materials which teachers can use as materials for the learners.

## Whispering the Strategies of Language: An Psychological Quest through **Using Trigonometric Identities Tesccc Unit 5 Lesson**

In a digitally-driven world where monitors reign great and quick communication drowns out the subtleties of language, the profound techniques and mental nuances hidden within phrases frequently move unheard. However, located within the pages of **Using Trigonometric Identities Tesccc Unit 5 Lesson** a interesting literary prize pulsating with organic thoughts, lies an extraordinary journey waiting to be undertaken. Penned by an experienced wordsmith, that enchanting opus attracts readers on an introspective journey, gently unraveling the veiled truths and profound influence resonating within the very fabric of each and every word. Within the mental depths with this poignant evaluation, we can embark upon a heartfelt exploration of the book is key themes, dissect its captivating writing fashion, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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