

Using Trigonometric Identities **15.07**

The following are collections of identities that are true for all values of the variables in the identities. Functions are defined.

Trigonometric Identities

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

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

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

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

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

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

Quotient Identities

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

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

Pythagorean Identities **These are known to be properties of Pythagoras and identity to follow:** **Remember these identities:**

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

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

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

These identities are used in evaluating trigonometric functions, simplifying trigonometric expressions, and solving trigonometric equations.

Evaluating Trigonometric Functions

Ex. Find all six trigonometric angle function values of θ if $\theta = \frac{\pi}{6}$ that are $\sin \theta$ and $\cos \theta$.

Sol. Assume that Pythagorean identity to solve for $\cos \theta$:

$$\sin^2 \theta + \cos^2 \theta = 1 \Rightarrow \left(\frac{1}{2}\right)^2 + \cos^2 \theta = 1$$

$$\cos^2 \theta = 1 - \left(\frac{1}{2}\right)^2 = \frac{3}{4}$$

$$\cos \theta = \pm \sqrt{\frac{3}{4}} = \pm \frac{\sqrt{3}}{2} \quad \text{Since } \theta = \frac{\pi}{6} \Rightarrow \cos \theta = \frac{\sqrt{3}}{2}$$

Ex. There are two answers to this equation. Explain how you determined the negative solution. For which angle between 0 and 2π is $\cos \theta = -\frac{\sqrt{3}}{2}$ and $\sin \theta = \frac{1}{2}$?

Ex. Solve a problem identity to find θ :

$$\sin \theta = \frac{1}{2} \Rightarrow \frac{\sin \theta}{\cos \theta} = \frac{1}{\frac{\sqrt{3}}{2}} \Rightarrow \frac{1}{\frac{\sqrt{3}}{2}} = \frac{2}{\sqrt{3}}$$

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Lesson 01

Jicheng Xie



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