

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.

Reciprocal Identities

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

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

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

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

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

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

Quotient Identities

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

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

Pythagorean Identities **These are known as Pythagorean Identities in Trigonometry**

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

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

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

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

Evaluating Trigonometric Functions

Ex. Find a constant angle that terminates in Quadrant II and $\sin \theta = \frac{1}{2}$. Find $\cos \theta$ and $\tan \theta$.

Sol. Assume that Pythagorean identity is valid for θ :

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

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

$$\cos^2 \theta = 1 - \frac{1}{4} = \frac{3}{4}$$

$$\cos \theta = \pm \sqrt{\frac{3}{4}} \quad \text{Since } \theta \text{ is in } \text{Quadrant II, } \cos \theta = -\sqrt{\frac{3}{4}}$$

Ex. There are two answers to this equation. Explain how you determined the negative solution. For constant angle θ , find $\sin \theta$ and $\tan \theta$.

Ex. Assume a constant identity is Pythagorean

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

Using Trigonometric Identities Unit 05 Answer Key

Marco Casella



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