

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 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 all six trigonometric function values of θ if θ is in Quadrant II and $\sin \theta = \frac{3}{5}$. Find $\cos \theta$ and $\tan \theta$.

Sol. Assume that Pythagorean identity is satisfied for θ .

$$\sin^2 \theta + \cos^2 \theta = 1 \Rightarrow \left(\frac{3}{5}\right)^2 + \cos^2 \theta = 1$$

$$\cos^2 \theta = 1 - \left(\frac{3}{5}\right)^2 = \frac{16}{25}$$

$$\cos \theta = \pm \sqrt{\frac{16}{25}} = \pm \frac{4}{5} \quad \text{Since } \theta \text{ is in } \text{Quadrant II, } \cos \theta = -\frac{4}{5}$$

Ex. There are two answers to this equation. Explain how you determined the negative solution. For which quadrant is θ located by using values and properties?

Ex. Solve a problem identity in trigonometry

$$\sin \theta = \frac{3}{5} \Rightarrow \frac{\sin \theta}{\cos \theta} = \frac{3}{4} \Rightarrow \frac{3}{4} = \frac{3}{4} \Rightarrow \frac{3}{4} = \frac{3}{4}$$

Using Trigonometric Identities Unit 05 Answer Key

Arturo Cuomo



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