

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 a convenient angle that terminates in Quadrant II and use it to find $\sin \theta$ and $\cos \theta$.

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

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

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

$$\sin \theta = \pm \sqrt{\frac{3}{4}} = \pm \frac{\sqrt{3}}{2} \quad \text{Since } \theta \text{ is in } \text{Quadrant II, } \sin \theta = \frac{\sqrt{3}}{2}$$

Ex. There are two answers to this equation. Explain how you determined the negative solution. For which angle is this solution? **Remember to consider angles and quadrants.**

Ex. Solve a equation identity to find θ :

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

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