

# Trigonometric Functions in Triangles

The word trigonometry means "triangle measurement."

Definition:

sine:  $\sin \theta = \frac{\text{Opposite}}{\text{Hypotenuse}}$

cosine:  $\cos \theta = \frac{\text{Adjacent}}{\text{Hypotenuse}}$

tangent:  $\tan \theta = \frac{\text{Opposite}}{\text{Adjacent}}$

Definition:

cosecant:  $\csc \theta = \frac{\text{Hypotenuse}}{\text{Opposite}}$

secant:  $\sec \theta = \frac{\text{Hypotenuse}}{\text{Adjacent}}$

cotangent:  $\cot \theta = \frac{\text{Adjacent}}{\text{Opposite}}$

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## Trigonometric Identities

Reciprocal Identities

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

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

Pythagorean Identities

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

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

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

# Fund Of Trigonometry 8ed Ism

**Albert A Gayle**



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