

## Trigonometric Functions – Learning Targets

Recognize and compute basic right triangle ratios: sine, cosine, and tangent.

Find the distance traveled during a given number of revolutions by a point on the circumference of a circle.

Convert radian measures to degree measures.

Convert degree measures to radian measures.

Using technology, find basic trig ratios: sine, cosine, and tangent.

Using technology, find inverse trig ratios:  $\sin^{-1}$ ,  $\cos^{-1}$ ,  $\tan^{-1}$ .

Determine the sine and cosine of an angle in standard position given the coordinates of a point other than the origin on the terminal side of the angle.

Determine one of the values  $\sin \theta$  or  $\cos \theta$  given the other value and the quadrant in which  $\theta$  lies.

Understand and use a variety of trigonometric terms including:

- directed angle
- coterminal angle
- standard position
- quadrantal angle
- straight angle
- degrees of rotation, radians of rotation
- radian measure
- sine, cosine tangent
- cosecant, secant, cotangent