

**Algebra 2**  
**Unit: Trigonometric Functions**  
**Section: Trigonometric Values in All Four Quadrants**

**Example: Finding Cosine and Sine in Quadrant I**

**Problem**

Find the point P cosine of thirty degrees, sine of thirty degrees on the unit circle.

**Solution**

Draw the special right triangle thirty, sixty, ninety. This has legs with lengths equals to 1 and square root of 3 and hypotenuse equal to 2.

Solve for cosine and sine. Cosine of thirty degrees is square root of three divided by two. Sine of thirty degrees is one-half.