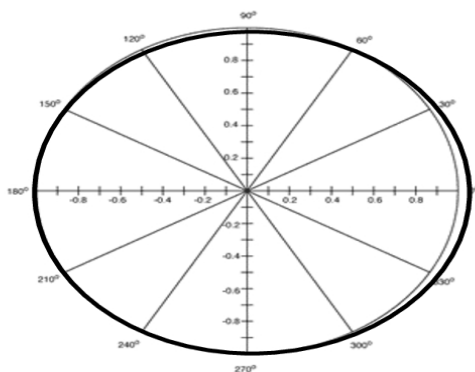# Explore Learning

Lesson Plan

Worksheet

## The Unit Circle

### Introduction

The unit circle has the equation $x^2 + y^2 = 1$.  The trigonometric functions can be defined using the unit circle.



Let's explore the unit circle.  Use your web browser to go to the "Unit circle" activity:

http://www.explorelearning.com/index.cfm?method=cResource.dspView&ResourceID=92

Below are several questions designed to get you thinking about the activity. Answer them on a separate sheet of paper.

**Cosine**
Select the "**cosine**" radio button and select the "Show reference triangle" box. Grab the green point on the unit circle and drag it around the circle.