


## Trig on the Calculator

*The scientific calculator is quite a bit easier for this unit, but you should learn how to do everything on both calculators!*

	Graphing Calculator	Scientific Calculator
<b>Degree Mode / Radian Mode</b>		
<p>You MUST make sure you are in the correct mode before each question so that you get the right answer!!</p>	<p>Press <b>[mode]</b>.                      Use arrows to highlight mode.                      Press <b>[enter]</b>.                      Press <b>[clear]</b>.                      Do calculation.</p>	<p>Press DRG button.                      Use arrows to underline mode.                      Press <b>[ENTER]</b>.                      Do calculation</p>
<p>Now try these examples on your calculator:  <math>\sin 214^\circ = -0.5592</math>  <math>\cos 2\pi = 1</math></p>		
<b>Entering Degrees/Minutes/Seconds (D°M'S")</b>		
<p>Just like with hours, there are 60 minutes in a degree and 60 seconds in a minute.</p>	<p>Press given trig function button.                      Enter degrees value.                      Press <b>[2nd][apps]</b> for the angle menu.                      Enter the minutes value.                      Press <b>[2nd][apps]</b> for the angle menu.                      Enter the seconds value.                      Press <b>[alpha][+]</b> to get ".                      Do calculation.</p>	<p>Scientific calculator is easier!!                      All the symbols are on their own butt </p>
<p>Now try these examples on your calculator:  <math>\cos 56^\circ 15' = 0.5556</math>  <math>\tan 45^\circ 12' 56'' = 1.008</math></p>		
<b>Reciprocal Functions</b>		
<p>For all calculator types, make sure you are in the correct mode (degrees or radians).                      Type in 1 <b>[÷]</b> and the reciprocal function with the given angle.</p>		
<p>Now try these examples on your calculator:  <math>\csc 35^\circ = 0.17434</math>  <math>\sec 2.7 = -1.1061</math> ... this angle was in radians!!</p>		
<b>Inverse Functions</b>		
<p>You use inverse functions when given the ratio and asked for the angle. First, make sure you are in the correct mode!</p>	<p>Correct mode?                      Type in the given ratio.                      Press <b>[2nd]</b> and the trig button.                      Press <b>[enter]</b>.</p>	<p>Same as graphing calculator!</p>
<p>Now try this example on your calculator:  <math>\sin \theta = 0.3329</math>  <math>\theta = \sin^{-1}(0.3329) = 19.4449 = 19^\circ 26' 42''</math> ← with 19.4449 on your screen, find &gt;DMS.</p>		