

### Trig on the Calculator

Things to Know	Examples
degree mode / radian mode	$\sin 214^\circ = -0.559$ $\cos 2\pi = 1$
degrees minutes seconds $1^\circ = 60' = 3600''$ (D°M'S'')	$\cos 56^\circ 15' = 0.556$ $\tan 45^\circ 12' 56'' = 1.008$
RECIPROCAL functions 'rad'	$\csc 35^\circ = \frac{1}{\sin 35^\circ} = 1.743$ $\sec 2.7 = \frac{1}{\cos 2.7} = -1.106$
INVERSE functions used to find angle.	$\sin \theta = 0.3329$ $\theta = \sin^{-1}(0.3329)$ $\theta = 19.4448852$ $\times 60$

$\theta = 19.027'$  or  $19.4^\circ$   
in degrees.

Find the measure of the angle. Write your answer in two ways: Rounded to the hundredth AND to the nearest minute.

4.  $\sin \theta = .6679$   
 $\theta = \sin^{-1}(.6679)$   
 $\theta = 41.91^\circ$   
 or  
 $41.90519197$   
 $\times 60$   
 $\boxed{41^\circ 54'}$

5.  $\csc \theta = 1.6679$   
 $\sin \theta = \frac{1}{1.6679}$   
 $\theta = \sin^{-1}(\frac{1}{1.6679})$   
 $\theta = 58.910^\circ$   
 or  
 $\theta = 58.896739772$   
 $\boxed{58^\circ 54'}$

Find each of the following: Round 4 dec. places.

- $\tan\left(\frac{\pi}{3}\right) = \boxed{1.7321}$
- $\cos(52^\circ 35' 25'') = \boxed{0.6075}$
- $\cot(3.5) = \frac{1}{\tan(3.5)} = \boxed{2.6696}$