Trig on the Calculator

Things to Know	Examples
degree mode / radian mode	$\sin 214° = -.559$ $\cos 2\pi = 1$
degrees minutes seconds (D°M'S")	$\cos 56° 15' = .556$ $\tan 45° 12' 56'' = 1.008$
RECIPROCAL functions * use for csc, sec, cot	Degrees: $\csc 35° = \frac{1}{\sin 35} = 1.743$ ($\frac{1}{\sin}$) Radians: $\sec 2.7 = \frac{1}{\cos 2.7} = -1.106$ ($\frac{1}{\cos}$)
INVERSE functions * use to find an angle	2nd sin $\sin \theta = 0.3329$ $\theta = \sin^{-1}(0.3329)$ $\theta = 19.44°$

$1° = 60' = 3600''$

* $\sin^{-1}$ is not cosecant. Inverse is not the same as reciprocal.

Find each of the following:
(Round 4 decimal places.)

Set calc. to Radians 1. $\text{Tan}\left(-\frac{\pi}{3}\right) = -1.732$

Degrees 2. $\text{Cos}(52^0 35' 25'') = .6075$

Radians - Reciprocal 3. $\text{Cot}(3.5) = \frac{1}{\tan 3.5} = 2.6696$

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

* use inverse functions

4. $\sin\theta = .6679$

$\theta = \sin^{-1}(.6679)$

$\boxed{\theta = 41.91}$ $(.91 \times 60)$

$\boxed{41° \; 54'}$

* use inverse and reciprocal

5. $\csc\theta = 1.1679$

$\sin\theta = \frac{1}{1.1679}$

$\theta = \sin^{-1}\left(\frac{1}{1.1679}\right)$

$\boxed{\theta = 58.9}$

$\boxed{\theta = 58° \; 53'}$