

# PROBLEMS AND SOLUTIONS - INVERSE TRIGONOMETRIC FUNCTIONS Prepared by Ingrid Stewart, Ph.D., College of Southern Nevada Please Send Questions and Comments to ingrid.stewart@csn.edu. Thank you!

PLEASE NOTE THAT YOU CANNOT ALWAYS USE A CALCULATOR ON THE ACCUPLACER - COLLEGE-LEVEL MATHEMATICS TEST! YOU MUST BE ABLE TO DO SOME PROBLEMS WITHOUT A CALCULATOR!

#### Problem 1:

Using a calculator, find **sin** -1 (0.86) in degrees and radians rounded to two decimal places.

## **Problem 2:**

Using a calculator, find **cos** -1 (-0.87) in degrees and radians rounded to two decimal places.

## **Problem 3:**

Using a calculator, find *tan -1 (0.59)* in degrees and radians rounded to two decimal places.

## **Problem 4:**

Using a calculator, find *cot* <sup>-1</sup> (-0.3541) in degrees and radians rounded to two decimal places.

#### **Problem 5:**

Using a calculator, find **sec** -1 (-1.43) in degrees and radians rounded to two decimal places.

## **Problem 6:**

Using a calculator, find *csc -1 (1.942)* in degrees and radians rounded to two decimal places.

# SOLUTIONS You can find detailed solutions below the link for this problem set!

1.	<b>59.32°</b> or <b>1.04</b> radians	2.	<b>150.46°</b> or <b>2.63</b> radians.	3.	<b>30.54°</b> or <b>0.53</b> radians
4.	<b>109.50°</b> or <b>1.91</b> radians.	5.	<b>134.37°</b> or <b>2.35</b> radians	6.	<b>30.99°</b> or <b>0.54</b> radians