Name: _____

AWM 10

Ch. 7.2 Sine Ratio

Notes

When we only have one side of a right triangle we are not able to solve for any other sides of the triangle. This is where______ was introduced. This is the study of angles and sides. We will look at the ______ ratio first.

Before we use the Sin ratio we have to be able to label a triangle properly with it corresponding names. These names are relative to what angle you are looking from.





Use your calculator to find Sin ratios (4 decimal places). (Make sure its in DEG mode.)

Sin 34°=_____ Sin 45°=_____ Sin 56°=_____

Sin 71º=	
Sin 83°=	
Sin 90°=	

The Sin Ratio. We can use the Sin ratio to solve for a missing side of a triangle if we know a certain angle in that triangle.



SOHCAHTOA

Example 1: Find the missing side of the following triangles





Example 2: Find the length of the hypotenuse in the picture below.



Example 3:

Brad is building a ramp. The ramp must form an angle of 22° with the level ground and reach a point that is 1.5 meters above the ground. How long will the ramp be?

