		Trigonometric Ratios in	Right Triangles
Words	Symbol	Definition	
The symbol (called) is used to refer to angles or indicated angles.			
You may need to use to find the third side.			

5-2 Trigonometric Ratios in Right Triangles Notes

Example 1: Find the trig ratios for the indicated angle θ or angle A.



Finding a Missing Side with a Trigonometric Ratio

• With trigonometry, you only need to know ______ and _____ (other than

the right angle) in order to find the ______ in a right triangle.

- Decide how the given side and given angle relates to the _______
- Set up a(n) ______ using the appropriate _____
 - If x is on _____, then _____. $\rightarrow Ex: \tan 56 = \frac{x}{21}$
 - If x is on _____, then _____. $\rightarrow Ex: \sin 72 = \frac{16}{x}$

Check Your Calculator Mode – It MUST be in DEGREES!

Example 2: Find the missing side x for each given right triangle. Round to nearest tenth.



Solving the triangle means that you need to find ______. You will

have **<u>3 ANSWERS</u>**!

Example 3: Solve the triangle. Round to the nearest tenth.

a. $A = 33^{\circ}$ and $b = 5.8$	b. $B = 68^{\circ}$ and $c = 14$



