The Right Triangle Trigonometric Ratios – Although we won't prove this fact until a future geometry course, all right triangles that have a common acute angle are similar. Thus, the ratios of their corresponding sides are equal. A very long time ago, these ratios were given names. These trigonometric ratios (trig ratios) will be introduced through the following exercises, each of which refer to the diagram below.



In a right triangle:

tangent of an angle 
$$=$$
  $\frac{\text{leg opposite of the angle}}{\text{leg adjacent to the angle}}$ 

Exercise #3: 
$$\tan A = 3/4$$
  $\tan C = 4/3$ 

sine of an angle 
$$=$$
  $\frac{\text{leg opposite of the angle}}{\text{hypotenuse}}$ 

Exercise #4: 
$$\sin A = 3/5$$
  $\sin C = 4/5$ 

cosine of an angle 
$$=$$
  $\frac{\text{leg adjacent to the angle}}{\text{hypotenuse}}$ 

Exercise #5: 
$$\cos A = 4/5$$
  $\cos C = 3/5$ 

#### A Helpful Mnemonic For Remembering the Ratios:

#### SOH-CAH-TOA

Sine is Opposite over Hypotenuse – Cosine is Adjacent over Hypotenuse – Tangent is Opposite over Adjacent

Exercise #3: Find each of the following ratios for the right triangle shown below.

(a) 
$$\sin A = \frac{12/13}{}$$

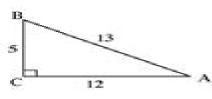
(b) 
$$\tan B = 12/5$$

(c) 
$$\cos A = 12/13$$

(d) 
$$\tan A = 5/12$$

(c) 
$$\cos B = 5/13$$

(f) 
$$\sin B = 12/13$$



# **Algebra 1 Unit 8 Triangle Trigonometry**

Rajesh K. Dewan

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