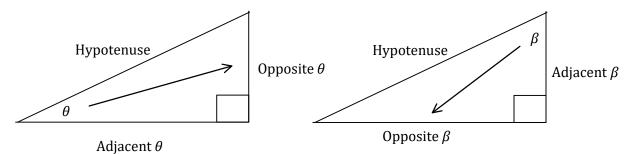
M10 - 3.1 - SOH CAH TOA Trigonometry Intro Notes

Sides

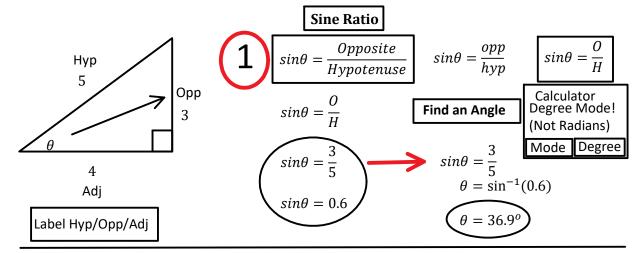
 $|(\theta \& \beta \text{ are Angles})|$



Hypotenuse: The Longest Side, Opposite of the 90° Angle.

Adjacent: The side touching angle θ .

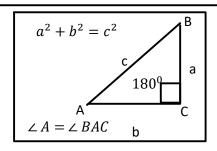
Opposite: The side opposite of angle θ .



SOH CAH TOA

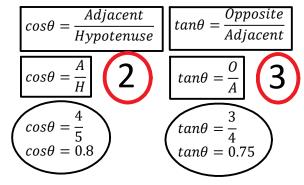
I	0	Н	0	Α	Н	Α	0	Α
Ν	Р	Υ	S	D	Υ	Ν	Р	D
Ε	Р	Р		J	Р		Р	J
	0	0		Α	0		0	Α
	S	T		С	Т		S	С
	ı	E		Ε	Ε		1	Ε
	Т	N		Ν	N		Т	Ν
	Ε	U		Т	U		Ε	Т
		S			S			
		E			Е			
		_						

Choose the part of **SOH CAH TOA** that has 2 pieces of info that we have, and one we want.



Cosine Ratio

Tangent Ratio



$$\theta = \cos^{-1}(0.8)$$
 $\theta = \tan^{-1}(0.75)$ $\theta = 36.9^{\circ}$

Measure the angle with a protractor!