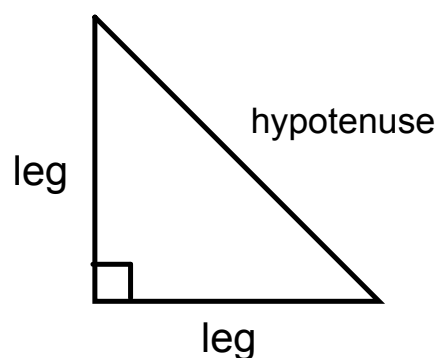
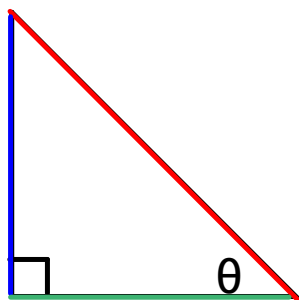


## Trig Functions

Sine	Cosine
Cosine	Cosecant
Tangent	Cotangent

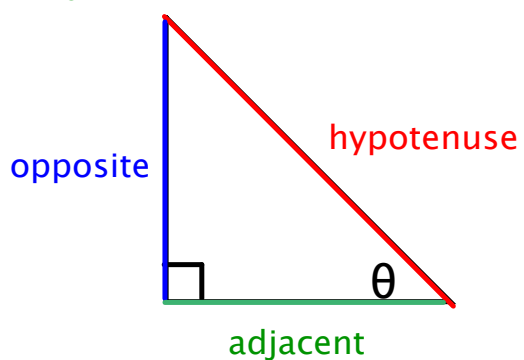


How: Use ratio of side lengths to find each trig function  
\*\* Start from an angle that is not the right angle



From the angle  $\theta$ , find the sides that are **opposite**, **adjacent**, and the **hypotenuse**

From the angle  $\theta$ , find the sides that are **opposite**, **adjacent**, and the **hypotenuse**



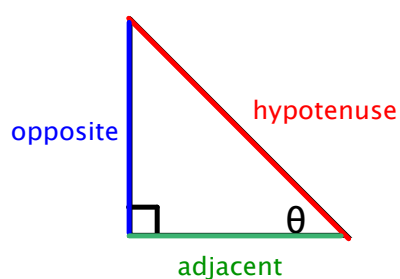
The Ratios:

"Sine"  $\text{Sin} = \frac{\text{opposite}}{\text{hypotenuse}}$

"Cosine"  $\text{Cos} = \frac{\text{adjacent}}{\text{hypotenuse}}$

"Tangent"  $\text{Tan} = \frac{\text{opposite}}{\text{adjacent}}$

### Let's Practice

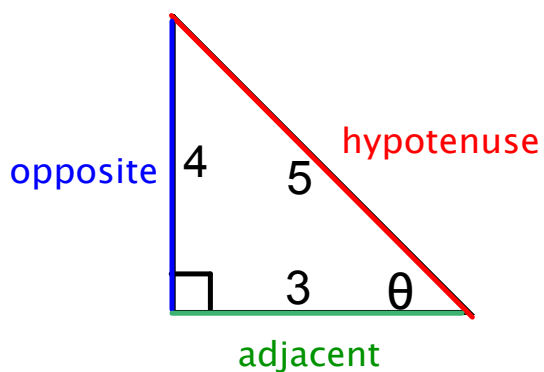


The Ratios:

"Sine"  $\text{Sin} = \frac{\text{opposite}}{\text{hypotenuse}}$

"Cosine"  $\text{Cos} = \frac{\text{adjacent}}{\text{hypotenuse}}$

"Tangent"  $\text{Tan} = \frac{\text{opposite}}{\text{adjacent}}$

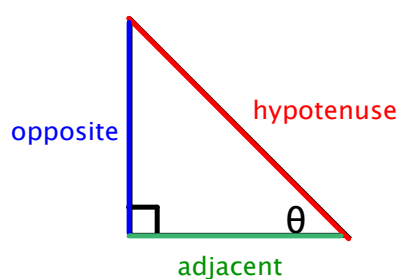


Sin = \_\_\_\_\_

Cos = \_\_\_\_\_

Tan = \_\_\_\_\_

### Let's Practice

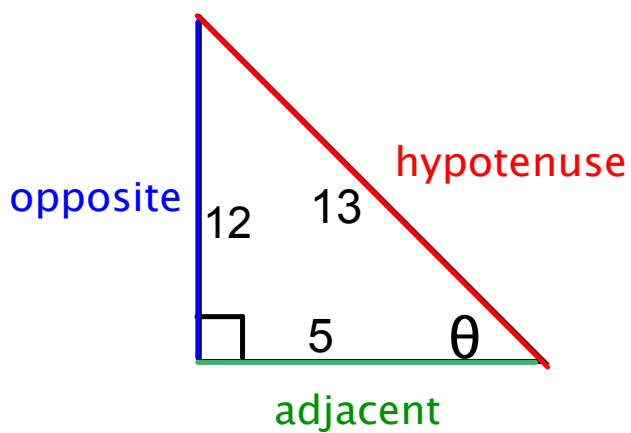


The Ratios:

"Sine"  $\text{Sin} = \frac{\text{opposite}}{\text{hypotenuse}}$

"Cosine"  $\text{Cos} = \frac{\text{adjacent}}{\text{hypotenuse}}$

"Tangent"  $\text{Tan} = \frac{\text{opposite}}{\text{adjacent}}$



$\text{Sin} = \underline{\hspace{2cm}}$

$\text{Cos} = \underline{\hspace{2cm}}$

$\text{Tan} = \underline{\hspace{2cm}}$