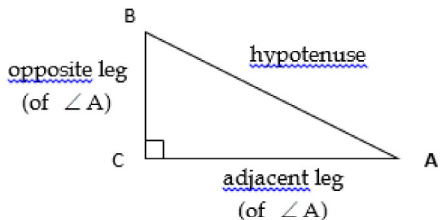


Guiding Question: Can I apply my knowledge of trigonometry to solve triangles?

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**Trigonometric Ratios**

Sine ratio ( $\sin A$ ) =  $\frac{\text{opposite leg}}{\text{hypotenuse}}$

Cosine ratio ( $\cos A$ ) =  $\frac{\text{adjacent leg}}{\text{hypotenuse}}$

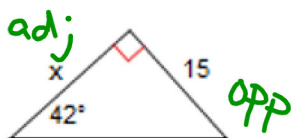
Tangent ratio ( $\tan A$ ) =  $\frac{\text{opposite leg}}{\text{adjacent leg}}$

S O C T  
H A H A  
H A

Warm-up:

Solve for x. Round side lengths to the nearest tenth.

1.

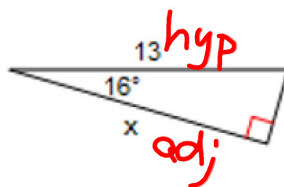


~~$\tan 42 = \frac{15}{x}$~~

~~$\cdot 9004(x) = 15$~~   
 ~~$\cdot 9004$~~   $\cdot 9004$

$x = 16.7$

2.



$\cos 16 = \frac{x}{13}$

~~$\cdot 9612 = \frac{x}{13}$~~

$x = \cdot 9612(13)$

$x = 12.5$