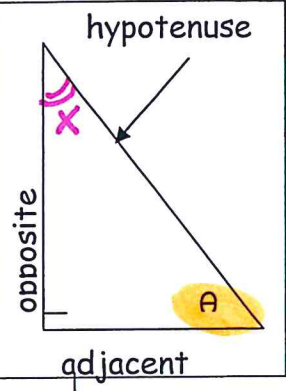


Trigonometry - means "triangle measure"
hypotenuse longest side / across from 90°
adjacent Next to.
opposite Across from.

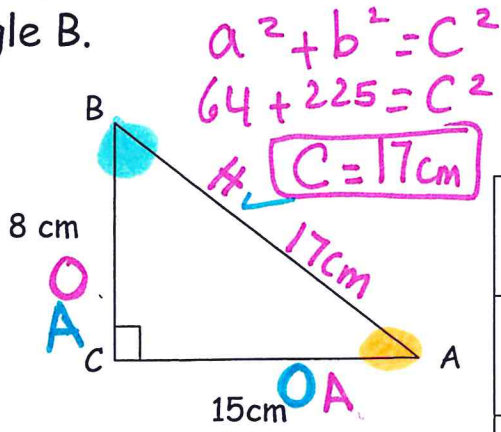
	Name	Symbol	Definition
Trigonometric Ratios	sine θ	$\sin \theta$	<u>opposite side</u> O <u>hypotenuse</u> H
	cosine θ	$\cos \theta$	<u>adjacent side</u> A <u>hypotenuse</u> H
	tangent θ	$\tan \theta$	<u>opposite side</u> O <u>adjacent side</u> A



SOH - CAH - TOA

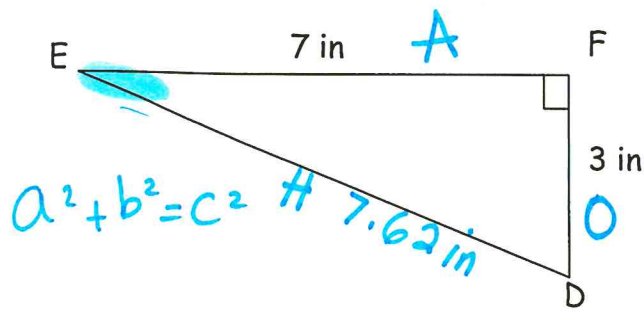
$\sin = \frac{O}{H}$
 $\cos = \frac{A}{H}$
 $\tan = \frac{O}{A}$

Examples: 1. Find the values for all 3 trig functions for angle A and angle B.



$\sin(A) = \frac{8}{17}$ SOH	$\sin(B) = \frac{15}{17}$
$\cos(A) = \frac{15}{17}$ CAH	$\cos(B) = \frac{8}{17}$
$\tan(A) = \frac{8}{15}$ TOA	$\tan(B) = \frac{15}{8}$

2. Find the three trig values for angle E.



$\sin(E) = \frac{3}{7.62}$	SOH
$\cos(E) = \frac{7}{7.62}$	CAH
$\tan(E) = \frac{3}{7}$	TOA

$$\begin{aligned}\sin(30^\circ) &= 0.5 \\ \cos(45^\circ) &= 0.71 \\ \tan(60^\circ) &= 1.73\end{aligned}$$

} Calculator
Make sure it is
"in degree"