

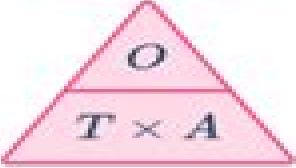


Triangle	Trigonometric Formulae	
	Missing side	Missing angle
<p>SOH</p> 	<p>To find the length of the opposite side:</p> $O = H \times \sin(\theta)$ <p>To find the length of the hypotenuse:</p> $H = \frac{O}{\sin(\theta)}$	<p>Make θ the subject of the sine function</p> $\sin(\theta) = \frac{O}{H}$ <p>to find the missing angle using the inverse sine function</p> $\theta = \sin^{-1}\left(\frac{O}{H}\right)$
<p>CAH</p> 	<p>To find the length of the adjacent side:</p> $A = H \times \cos(\theta)$ <p>To find the length of the hypotenuse:</p> $H = \frac{A}{\cos(\theta)}$	<p>Make θ the subject of the cosine function</p> $\cos(\theta) = \frac{A}{H}$ <p>to find the missing angle using the inverse cosine function</p> $\theta = \cos^{-1}\left(\frac{A}{H}\right)$
<p>TOA</p> 	<p>To find the length of the opposite side:</p> $O = A \times \tan(\theta)$ <p>To find the length of the adjacent side:</p> $A = \frac{O}{\tan(\theta)}$	<p>Make θ the subject of the tangent function</p> $\tan(\theta) = \frac{O}{A}$ <p>to find the missing angle using the inverse tangent function</p> $\theta = \tan^{-1}\left(\frac{O}{A}\right)$

Geometry Honors Sohcahtoa

Sabine Zange



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