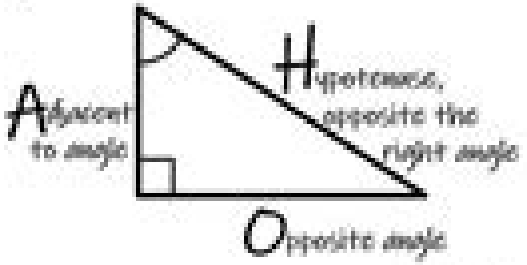
TRIGONOMETRY

SOH CAH TOA

$\sin x = \frac{O}{H}$ (angle: x; side lengths: O, H)



REMINDER

Pythagoras' theorem

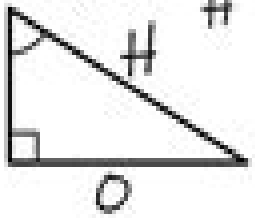
$a^2 + b^2 = c^2$

Substitute known values into the equation and solve.

To calculate a side length:

$\sin x = \frac{O}{H}$

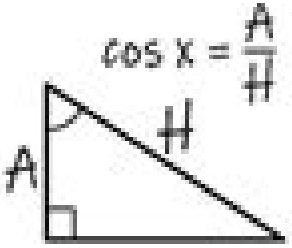
Substitute x and O or H. Calculate sin x and rearrange to find the unknown side length.

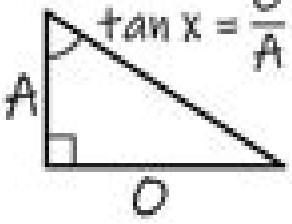


To calculate an angle:

$\sin x = \frac{O}{H}$

Substitute side lengths into O and H. Use $\sin^{-1}\frac{O}{H}$ to calculate the angle.





LEVEL UP

For triangles with no right angle, use these equations:

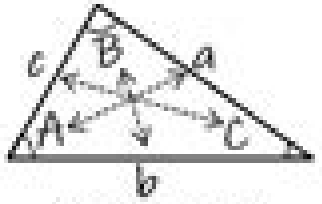
Sine rule:

To calculate an angle use:

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

Or for calculating a side length use:

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$



Cosine rule:

$a^2 = b^2 + c^2 - 2bc\cos A$

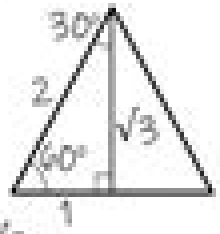
Area rule:

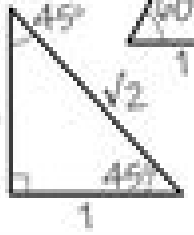
Area = ½ a b sinC

Maths with Sarah T

SCAN ME

Sin 30 = ½	Sin 60 = √3/2	Sin 45 = √2/2
Cos 30 = √3/2	Cos 60 = ½	Cos 45 = √2/2
Tan 30 = √3/3	Tan 60 = √3	Tan 45 = 1





For more help with exact trig. values check out my cheat sheet posted on Instagram and Twitter.

Mathematics Year 11 Geometry And Trigonometry Guide

EW Minium

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