

S
O
H
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A
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T
O
A

$\sin x = \frac{O}{H}$ side lengths
angle ↗ ↖



TRIGONOMETRY

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.



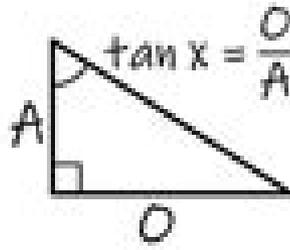
$\cos x = \frac{A}{H}$

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.



REMINDER

Pythagoras' theorem
 $a^2 + b^2 = c^2$



a and b can be either way around
 Substitute known values into the equation and solve.

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 = $\frac{1}{2} ab \sin C$

Maths
 with Sarah T



$\sin 30 = \frac{1}{2}$	$\sin 60 = \frac{\sqrt{3}}{2}$	$\sin 45 = \frac{\sqrt{2}}{2}$
$\cos 30 = \frac{\sqrt{3}}{2}$	$\cos 60 = \frac{1}{2}$	$\cos 45 = \frac{\sqrt{2}}{2}$
$\tan 30 = \frac{\sqrt{3}}{3}$	$\tan 60 = \sqrt{3}$	$\tan 45 = 1$



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

Mathematics Year 11 Geometry And Trigonometry Guide

K Payea



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