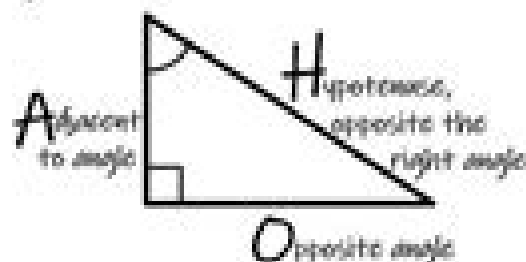


S  
O  
H  
  
C  
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$$\sin x = \frac{O}{H}$$

side lengths

angle



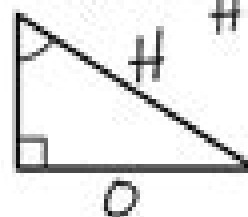
# TRIGONOMETRY

To calculate a side length:

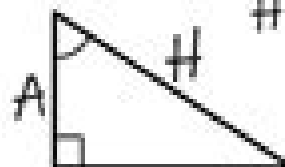
$$\sin x = \frac{O}{H}$$

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

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



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

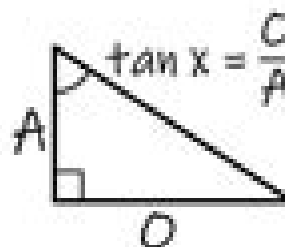


To calculate an angle:

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

Substitute side lengths into O and H.

Use  $\sin^{-1} \frac{O}{H}$  to calculate the angle.



## REMINDER

Pythagoras' theorem

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

Hypotenuse (opposite the right angle) is always c.



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:

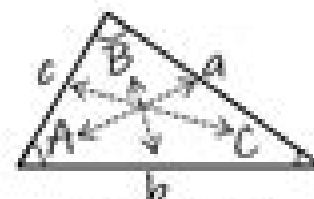
Sine rule:

To calculate an angle use:

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

Or for calculating a side length use:

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

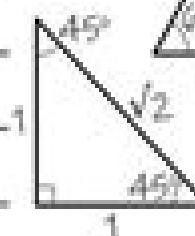
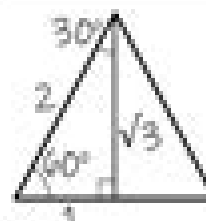


Cosine rule:

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

Area rule:

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



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



SCAN ME

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

# Mathematics Year 11 Geometry And Trigonometry Guide

**RM Cervero**



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