

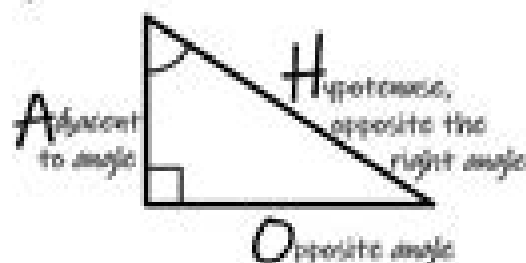
S
O
H

C
A
H

T
O
A

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

angle $\nearrow$ side lengths $\nwarrow$



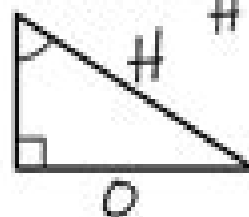
TRIGONOMETRY

To calculate a side length:

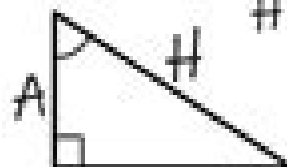
$$\sin x = \frac{O}{H}$$

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

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



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

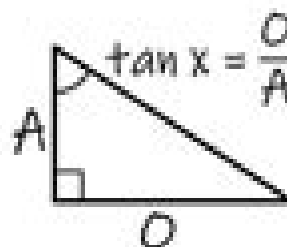


To calculate an angle:

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

Substitute side lengths into O and H.

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



$$\tan x = \frac{O}{A}$$

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:

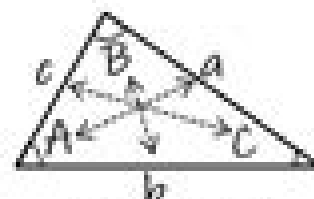
Sine rule:

To calculate an angle use:

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

Or for calculating a side length use:

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

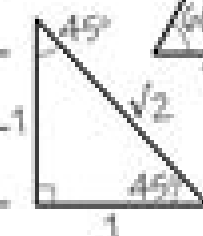
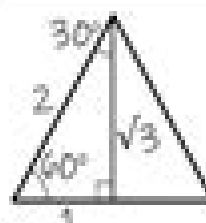


Cosine rule:

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

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

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

Trigonometry Cheat Sheet

Minjie Lin

A red circular graphic with a gradient, appearing as a semi-circle or a stylized arrow pointing to the right, located on the right side of the light blue bar.

Trigonometry Cheat Sheet:

Trigonometry Cheat Sheet Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Trigonometry Cheat Sheet**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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