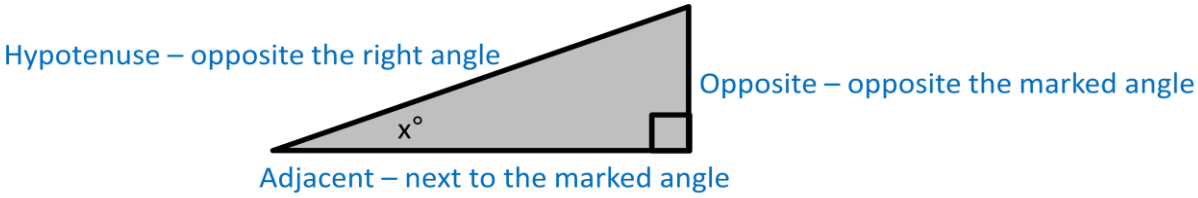
Trigonometry - SOHCAHTOA

Naming Sides



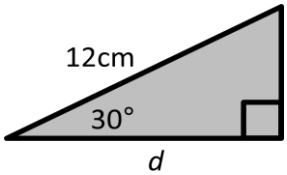
The Rules

$$\sin x° = \frac{opp}{hyp} \qquad \cos x° = \frac{adj}{hyp} \qquad \tan x° = \frac{opp}{adj}$$

sin opp hyp cos adj hyp tan opp adj

SOH CAH TOA

Finding a Side



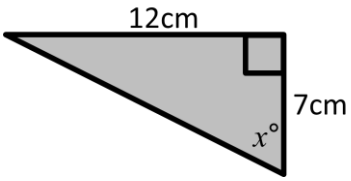
$$\cos x° = \frac{adj}{hyp}$$

$$\cos 30° = \frac{d}{12}$$

$$\cos 30° \times 12 = d$$

$$d = 10.4cm$$

Finding an Angle



$$\tan x° = \frac{opp}{adj}$$

$$\tan x° = \frac{12}{7}$$

$$\tan x° = 1.714$$

$$x = \tan^{-1} 1.714$$

$$x = 59.7°$$

SOHCAHTOA Practice

http://www.cimt.plymouth.ac.uk/projects/mepres/book9/bk9i15/bk9_15i2.html
http://www.cimt.plymouth.ac.uk/projects/mepres/book9/bk9i15/bk9_15i3.html
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