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NAME

TRIGONOMETRY 1











Trigonometry



The basic trigonometry ratios are :

 $\frac{\text{Opposite }\theta}{\text{Hypotenuse}} = \sin \theta$

 $\frac{\text{Adjacent }\theta}{\text{Hypotenuse}} = \cos \theta$

 $\frac{\text{Opposite }\theta}{\text{Adjacent }\theta} = \tan \theta$

note that $\tan \theta$ is the ratio that doesn't use the hypotenuse

Thus if the hypotenuse is the given (or known side) then :

Opposite θ = Hypotenuse × sin θ



Adjacent θ = Hypotenuse × cos θ



Conversely to find the hypotenuse :

Hypotenuse = Opposite $\theta \div \sin \theta$

Hypot<mark>enuse</mark> = Adjacent $\theta \div \cos \theta$

If the hypotenuse is not involved then use the tangent ratio.

Opposite θ = Adjacent $\theta \times \tan \theta$



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