

OCR GCSE (9-1) Mathematics recalling trigonometric ratios guide – print off and stick in student books!

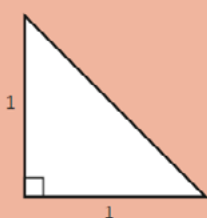
FOR GCSE (9-1) MATHEMATICS.....

Do you know the exact value of $\sin\theta$ and $\cos\theta$ for $\theta = 0^\circ, 30^\circ, 45^\circ, 60^\circ$ and 90° ?

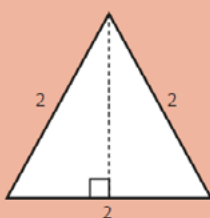
Do you know the exact values of $\tan\theta$ for $\theta = 0^\circ, 30^\circ, 45^\circ$ and 60° ?



Can you use the diagrams and rules below to find the exact values you need to remember?



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



$\sin\theta = \frac{\text{opp}}{\text{hyp}}$
 $\cos\theta = \frac{\text{adj}}{\text{hyp}}$
 $\tan\theta = \frac{\text{opp}}{\text{adj}}$

Is there a pattern to the exact values below that could help you remember them?

$\sin 0^\circ = \frac{\sqrt{0}}{2} = 0$	$\cos 0^\circ = \frac{\sqrt{4}}{2} = 1$	$\tan 0^\circ = 0$
$\sin 30^\circ = \frac{\sqrt{1}}{2} = \frac{1}{2}$	$\cos 30^\circ = \frac{\sqrt{3}}{2}$	$\tan 30^\circ = \frac{\sqrt{3}}{3}$
$\sin 45^\circ = \frac{\sqrt{2}}{2}$	$\cos 45^\circ = \frac{\sqrt{2}}{2}$	$\tan 45^\circ = \frac{\sqrt{3}}{\sqrt{3}} = 1$
$\sin 60^\circ = \frac{\sqrt{3}}{2}$	$\cos 60^\circ = \frac{\sqrt{1}}{2} = \frac{1}{2}$	$\tan 60^\circ = \frac{\sqrt{3}}{1}$
$\sin 90^\circ = \frac{\sqrt{4}}{2} = 1$	$\cos 90^\circ = \frac{\sqrt{0}}{2} = 0$	



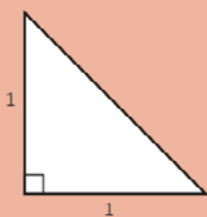
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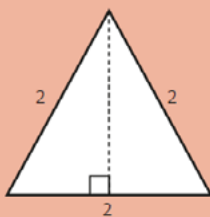
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$\sin 45^\circ = \frac{\sqrt{2}}{2}$	$\cos 45^\circ = \frac{\sqrt{2}}{2}$	$\tan 45^\circ = \frac{\sqrt{3}}{\sqrt{3}} = 1$
$\sin 60^\circ = \frac{\sqrt{3}}{2}$	$\cos 60^\circ = \frac{\sqrt{1}}{2} = \frac{1}{2}$	$\tan 60^\circ = \frac{\sqrt{3}}{1}$
$\sin 90^\circ = \frac{\sqrt{4}}{2} = 1$	$\cos 90^\circ = \frac{\sqrt{0}}{2} = 0$	

