

TRIGONOMETRIC RATIOS

$\sin \theta = \text{opp/hyp}$
 $\cos \theta = \text{adj/hyp}$
 $\tan \theta = \text{opp/adj}$
 $\text{cosec} \theta = \text{hyp/opp}$
 $\sec \theta = \text{hyp/adj}$
 $\cot \theta = \text{adj/opp}$

SOH CAH TOA

COMPLEMENTARY ANGLES

$\sin(90^\circ - \theta) = \cos \theta$
 $\cos(90^\circ - \theta) = \sin \theta$
 $\text{cosec}(90^\circ - \theta) = \sec \theta$
 $\sec(90^\circ - \theta) = \text{cosec} \theta$
 $\tan(90^\circ - \theta) = \cot \theta$
 $\cot(90^\circ - \theta) = \tan \theta$

TRIGONOMETRIC IDENTITIES

$\sin^2 \theta + \cos^2 \theta = 1$
 $\sec^2 \theta = 1 + \tan^2 \theta$
 $\text{cosec}^2 \theta = 1 + \cot^2 \theta$

Memorise

TRIGONOMETRIC VALUES

LC1450 Trigonometric Ratios of some Specific Angles

T-ratio \ θ	0°	30°	45°	60°	90°
$\sin \theta$	0	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1
$\cos \theta$	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0
$\tan \theta$	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	Not defined
$\text{cosec} \theta$	Not defined	2	$\sqrt{2}$	$\frac{2}{\sqrt{3}}$	1
$\sec \theta$	1	$\frac{2}{\sqrt{3}}$	$\sqrt{2}$	2	Not defined
$\cot \theta$	Not defined	$\sqrt{3}$	1	$\frac{1}{\sqrt{3}}$	0

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Memorise. very important



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