Trigonometric values

Trigonometry for 10^{th} standard.

Easy way to memorize the values of

different trigonometric ratios.

At first you need to memorize only

the 1^{st} raw from the chart .

i.e. sin0°=0

sin30°=1/2 and so on.

Then compare Cos table with the values of sin

of 0° to 90°. These are written in the reverse

way.

And sin45°=cos45°. sin0°=cos90°.

After memorizing the 1^{st} two raws

You need not memorize the other values.

Instead of you should keep the relations of

Trigonometric ratios in your mind.

e.g. cosecA=1/sinA

secA=1/cos a

tanA=sinA/cosA etc.

From these relations you will be able

to find or calculate the all values.

Now start to visit the table carefully

And memorize only the 1^{st} raw for the 1^{st}

day.

Welcome to the table

Angles / Ratios	0°	30°	45°	60°	90°
sin θ	0	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1
cos θ	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0
tan θ	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	Not defined
cosec θ	Not defined	2	$\sqrt{2}$	$\frac{2}{\sqrt{3}}$	1
sec θ	1	$\frac{2}{\sqrt{3}}$	$\sqrt{2}$	2	Not defined
cot θ	Not defined	$\sqrt{3}$	1	$\frac{1}{\sqrt{3}}$	0

Angles in degrees	0°	30°	45°	60°	90°
Sin	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
Cos	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0
Tan	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	Not defined
Cosec	Not defined	2	$\sqrt{2}$	$\frac{2\sqrt{3}}{3}$	1
Sec	1	$\frac{2\sqrt{3}}{3}$	$\sqrt{2}$	2	Not defined
Cot	Not defined	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0