## Trig tables





In the tables below,  $0 \le \theta \le 2\pi$  and any missing functions are either  $\sin \theta$ ,  $\cos \theta$  or  $\tan \theta$ .

Some of the row and column headings are missing. Without using a calculator, try to work out what they could be and complete the table. A function does not appear twice in the same table.

If you think you know what a missing function or value is, make sure you check that it works for all the entries in its row and column!

	$\theta = \dots$	$\theta = \dots$	$\theta = \dots$
	-1	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$
an  heta	undefined	$\sqrt{3}$	
$\cos \theta$			$-\frac{\sqrt{3}}{2}$

In the next table we have given some more information about  $\theta$ . Try to identify the missing functions and complete the table. Remember not to use a calculator!

	heta is reflex	$\theta = \dots$	heta is obtuse
		0	$-\frac{3}{5}$
$\sin \theta$		1	4 5
	<u>12</u> 5	undefined	

- How can you state the exact values of  $\theta$  in the 1st and 3rd columns of the second table?
- How might the answers change if  $\theta$  could be any value or you could use functions like  $-\sin\theta$  in the tables?
- How could you make your own 'trig table'? What things would you think about?