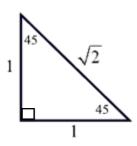
Guidance for tutors

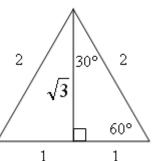
Outcome	SPT4		Student can consistently:			Know off by heart the values of sin, cos and tan 30°, 45°, 60° and 90°.			
How the topic is examined	 Examined through test paper questions. This will only be tested on non-calculator papers. This is a new topic to the new GCSE and it is difficult to predict the questions that students could be asked. It is likely that these questions will be part of a non-calculator question on trigonometry as opposed to asking students to recall the values. 								
Prior knowledge	 Students should be confident: Rearranging simple formulae (AEx8) Surds (NS3, NS5) Pythagoras' Theorem (SPT1) In addition questions on this topic can have links to: Trigonometry (SPT2,SPT3) 								
	Quite simply students need to remember the following table of values.								
		Angle	0°	30°	45°	60°	90°		
Suggested tuition approaches	s	in (angle)	0	$\frac{1}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{\sqrt{3}}{2}$	1		
	C	os (angle)	1	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{2}}$	$\frac{1}{2}$	0		
	Т	an (angle)	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	undefined		
				ν 3]	

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• Students find these difficult to remember. It is easy to confuse them and so students should see where these values come from using the triangles below.





Common errors and misconceptions Suggested resources

- The only mistake that students make is that they struggle to remember them or get them mixed up. Encourage them to use the above triangles to help them.
- This topic is just knowledge that students need to know. Questions are not tested directly.