

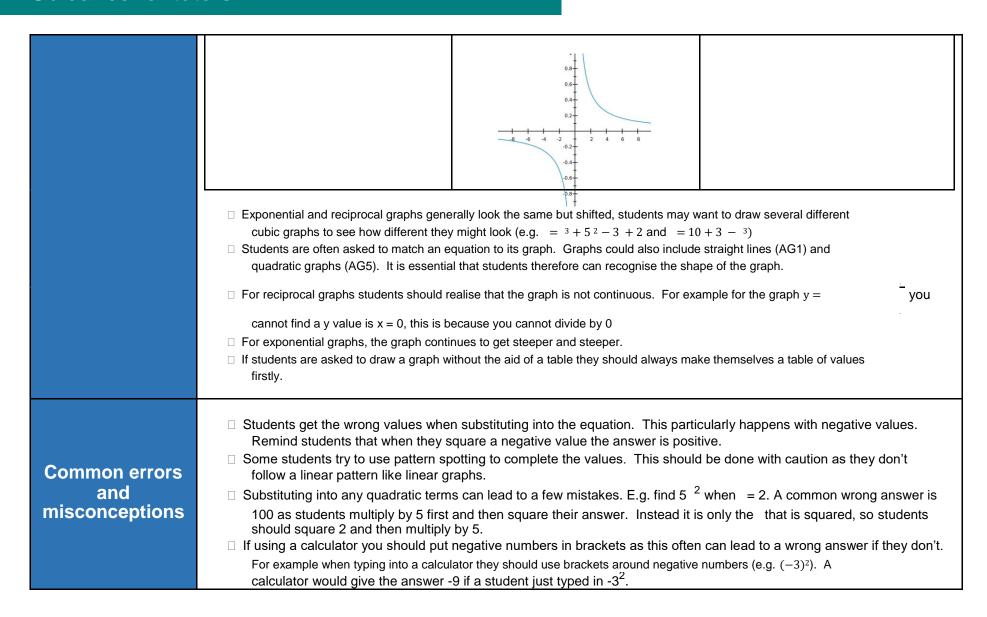
## Guidance for tutors

Outcome	AG8	Stude consis			cognise other graphs, including rocal and exponential graphs.	
How the topic is examined	<ul> <li>Examined through test paper questions.</li> <li>Questions are equally likely to appear on calculator or non-calculator papers.</li> <li>Students are asked to either draw or recognise the shape of the following types of graphs         <ul> <li>Cubic graphs (involves = ³)</li> </ul> </li> <li>Reciprocal graphs (e.g. =</li></ul>					
Prior knowledge	□ Students should be confident with:  ○ Substituting into expressions (AEx5)  ○ Drawing linear graphs (AG1)  ○ Drawing quadratic graphs (AG5)					
	Students need to be able to recognise the shapes of the following graphs. The easiest way to do this is to get them to draw graphs of this nature.					
Suggested tuition approaches	Cubic grapl  = 3		Reciproca	l graphs	Exponential graphs  = 2	

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Company number: 07473072 | Charity number: 1143011 Registered address: Bastion House, 140 London Wall, London EC2Y 5DN

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	☐ Students might notice that for cube numbers on a calculator they don't need a bracket for the x – value, you should always encourage them to do so.				
	<ul> <li>Once the points are plotted, if any of the points look out of place, based on how the graph should look – students should go back and check their working.</li> </ul>				
	<ul> <li>For reciprocal graphs there is a common mistake to try to connect the graphs through the middle as students think that when you divide by 0 you get 0. Students need to be aware that this is not the case.</li> <li>Students often get the graphs mixed up. Practice and repetition will help them overcome this.</li> </ul>				
	□ Questions				
	○ <a href="http://www.cimt.org.uk/projects/mepres/allgcse/pr13-sa.pdf">http://www.cimt.org.uk/projects/mepres/allgcse/pr13-sa.pdf</a> (pp 44 – 47)				
	<ul> <li>https://corbettmaths.files.wordpress.com/2013/02/exponential-graphs-pdf.pdf</li> </ul>				
Suggested	<ul> <li>https://www.tes.com/teaching-resource/quadratic-cubic-and-reciprocal-graphs-grade-b-6329057</li> </ul>				
	□ Video tutorial				
resources	<ul> <li>http://corbettmaths.com/2013/10/24/reciprocal-graphs/</li> </ul>				
	<ul> <li>http://corbettmaths.com/2013/11/17/exponential-graphs/</li> </ul>				
	<ul> <li>https://www.youtube.com/watch?v=bH4zaUhCp5E</li> </ul>				