

Guidance for tutors

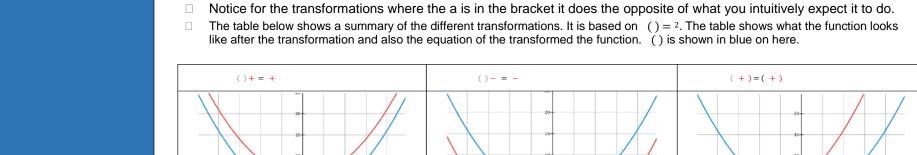
Outcome	AG10	Student can consistently:	Transform graphs using a given function.
How the topic is examined	 Examined through test paper questions. Questions are equally likely to appear on calculator or non-calculator papers. able to describe a graphical transformation using function notation. Although the required graphical transformations are restricted to translations and reflections, for completeness students might want to cover stretches of functions. Students may be required also to work out a transformed function given the original function. Transformations should be restricted to linear, quadratic, sine and cosine graphs. 		
Prior knowledge	 □ Students should be confident with: Graphs (AG1 and AG5) Substituting into expressions (AEx5) Transformations (SA4) □ In addition questions involving this topic can have links to: Sine, Cosine and Tangent graphs (SPT8) 		
Suggested tuition approaches	Students should understand what a translation and reflection are. They should also understand that a general function Students should know and understand the following transformations () + - translation a units up or translation by the vector () () translation a units down or translation by the vector (0) (+) - translation a units left or translation by the vector (0) (-) - translation a units right or translation by the vector (0) (-) - reflection in the -axis (-) - reflection in the -axis		

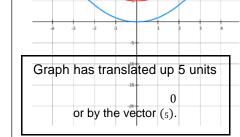
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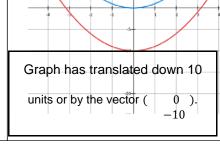
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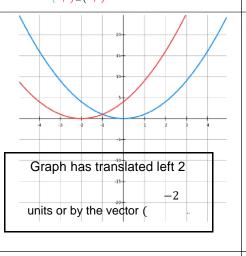
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$$(-) = (-)$$

$$-() = -$$

$$(-\) = (-\)$$

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