Question		n	Answer	Marks	AO	Guidance	
2	(a)		Translation	B1	2.5	Do not accept shift, move, transformation, etc. for first <b>B1</b>	
			- 8 units parallel to the y-axis or $\begin{pmatrix} 0\\ -8 \end{pmatrix}$	B1	1.1	Correct description e.g. correct vector (not as a coordinate), '8 units down'. <b>Do not</b> <b>allow second B1 after incorrect type of</b> <b>transformation e.g. stretch/rotation etc.</b> <b>but allow after shift/move etc.</b> Condone lack of 'units' but <b>do not accept</b> 'factor - 8', '8 <u>places/spaces/steps</u> down' etc.	For 'parallel to the y axis' allow 'vertically', 'in the y direction'. <b>Do not</b> accept across/up/along/to/in/ towards the y axis'
				[2]		If more than a single transformation, then no marks (unless two translations equivalent to the correct answer)	Mark vector before description/words
2	(b)		$y = x^3 - 8 \Longrightarrow y + 8 = x^3$ x =	M1	1.1	Attempt to make <i>x</i> the subject (allow sign errors only)	May use either $f(x)$ or $y$
			$f^{-1}(x) = (x+8)^{\frac{1}{3}}$	A1	1.1	Must be in terms of x. Allow the expression only e.g. $(x+8)^{\frac{1}{3}}$ , $\sqrt[3]{x+8}$ , oe	Ignore what this expression is equated to
				[2]			
2	(c)		One graph is the reflection of the other graph in the line $y = x$	B1	1.2	image' or 'mirrored' <b>and</b> ' $y = x$ '	<b>B0</b> for 'symmetrical' unless clearly describing reflective symmetry
				[1]			