2 3 (a) (b)			Correct enlargement (-2, 1) (-4, 1) (-2, 2) (-5, 2) (1, -4) (3, -4) (1, -5) (4, -5)	M2 [M1 C1	for the correct position of C or E for a correct position of B or D] for No with correct supporting evidence, eg. s OR for C is a rotation of 90° anticlockwise about of the correct supporting evidence, eg. C is a rotation of 90° clockwise about O. Correct enlargement (-1,-1.5), (-1,-3.5) (-2, correct size, correct orientation in incorrect placed) Shape labelled A Shape labelled B	O or E is a rotation of 90° clockwise about O tation of 90° anticlockwise about O and E is 2,-1.5)
-	rotation 180°	B2	rotation 180° ah	out (-1 -	2) or enlargement sf -1 centre (-1, -2)	Condone missing brackets but do not
4	about (-1, -2) or	B2	Totation 100 au	ош (1, .	e) of emargement si. T centre (1, 2)	accept centre written as a vector
	enlargement sf -1	(B1	rotation 180° or			Do not accept 'half turn' for 'rotation 180°'
	centre (-1, -2)				enlargement centre $(-1, -2)$) escription if more than one transformation is	Ignore references to clockwise and anticlockwise
			given	s for the de	scription it more than one transformation is	antiocawisc
			SC B1 for fully	correct dia	gram if B0 scored	Triangles at (-3, 1), (-5, 1), (-4, 3) and (-3, -5), (-5, -5), (-4, -7)
T -		DO.	16 . 1		(1.0) (0.2) (0.4) (1.4)	
5	Enlargement	B2 (B1			(1,2) (2,3) (2,4) (1,4) ation in the wrong position	
			OR 3 of 4 vertice OR 4 correct ve	ces correct	and joined	
6	enlargement scale	C2	for all of: enlargen	nent, (scale	factor =) $-\frac{1}{3}$ oe, (centre =) (2, 2)	
	factor $-\frac{1}{3}$ centre $(2, 2)$	(C1			5 1 () (2.0)	
	f				e factor =) $-\frac{1}{3}$ oe, (centre =) (2, 2)) than one transformation is given	
7	Description	C2	for (rotation) 90° clo or (rotation) 90° anti			Award 0 marks if there is reference to other transformations eg coordinates given as
			or (rotation) 180° ab or (rotation) 180° ab	out (-1, 2)	(1, 0)	vectors (which is a translation)
		(C1	for (-1, 0) or (-1, 6)		r (-1, 4))	
-						
8	Enlargement	B2	vertices at (2.5, 1	(2.5, 6) (5, 6)	
		(B1			ze and orientation in the wrong position	
					a different scale factor centre (0, 1)	
			or correct orient	ation with	2 of 3 vertices correct)	

9	9 Enlargement B2 sf -1.5 centre (1, 1)		for enlargement scale factor –1.5 and centre (1, 1)	Award no marks if more than one transformation is given
		(B1	for enlargement scale factor –1.5 or enlargement centre (1, 1))	

	(a)	rotation of 180°	M1	for method to find position of Q,	The method mark is awarded if no working is
10	10 about (2.5, -1)			eg shape drawn at $(-1, -2)$, $(-1, -5)$ and $(-2, -5)$	shown but at least 2 of the 3 aspects are correct in
				or	the description
				for method to find position of R,	
				eg shape drawn at $(4, -4)$, $(4, -7)$ and $(3, -7)$	
				or	
				for method to translate their Q correctly	
			A2	for rotation of 180° about (2.5, -1)	Cannot award A marks for a combination of
				or enlargement by scale factor -1 , centre $(2.5, -1)$	transformations
					With no extra incorrect aspects
			(A1	for any 2 of the 3 aspects)	
	(b)	(2.5, -1)	B1	for (2.5, -1) ft from rotation or enlargement in (a)	No follow through from a combined transformation in part (a)