

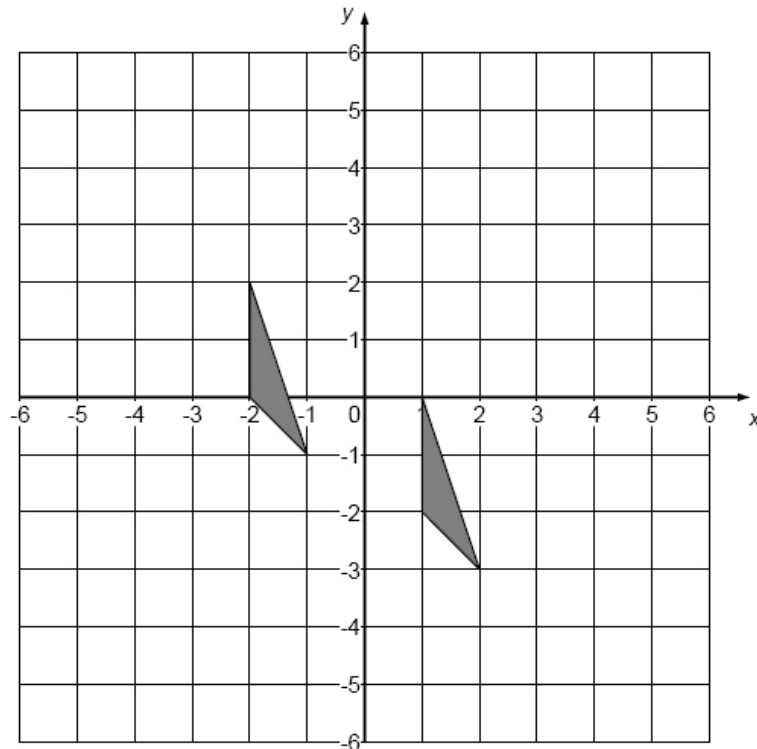
Translations Past Paper Questions (MS)



Mark Scheme

Q1.

Question	Working	Answer	Mark	Notes
	Triangle at $(-2, 2)$, $(-2, 0), (-1, -1)$	Correct figure	2	M1 for any translation A1 for correct translation



Q2.

Question	Working	Answer	Notes
		Translation by $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$	B1 for translation B1 $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$

Q3.

Question	Working	Answer	Notes
		Translation by $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$	B1 for translation B1 $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$



Q4.

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Question	Working	Answer	Mark	Notes
(a)		Shape with vertices at (-1, 3), (0, 6), (2, 6), (1, 3)	1	B1 for correct shape in correct position
(b)		Rotation centre (0,0) 90° anticlockwise	3	B1 Rotation B1 (centre) (0,0) or <i>O</i> or origin B1 90° anticlockwise or 270° clockwise Note: award no marks if more than one transformation is given

Q5.

Question	Working	Answer	Mark	Notes
	$\begin{pmatrix} 4 \\ -7 \end{pmatrix} + \begin{pmatrix} -3 \\ -2 \end{pmatrix}$	Translation $\begin{pmatrix} 1 \\ -9 \end{pmatrix}$	2	B1 for Translation B1 for $\begin{pmatrix} 1 \\ -9 \end{pmatrix}$

Q6.

Question	Working	Answer	Mark	Notes
(a)		Correct shape	1	B1 for correct shape in the correct position
(b)		Correct shape	1	B1 for correct shape in the correct position (ft) from their answer to part (a)
(c)		$\begin{pmatrix} -2 \\ 3 \end{pmatrix}$	1	C1 ft if A to C is a translation