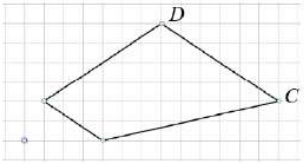
Question			Answer	Marks	AO	Guidance	
3	(a)			**B1** **B1** **[2]**	**1.1** **1.1**	Point C marked and labelled Point D marked and labelled	No need for line segments – just mark position of C using overlay (slight variations due to scanning) No need for line segments – just mark position of D using overlay (slight variations due to scanning) **SC B1** for both points correctly marked, but no labels or labels reversed
3	(b)	(i)	$\overrightarrow{AB} = \mathbf{b} - \mathbf{a}$ $\overrightarrow{DC} = (\mathbf{a} + 3\mathbf{b}) - (3\mathbf{a} + \mathbf{b})$ $\overrightarrow{DC} = 2\mathbf{b} - 2\mathbf{a}$	**B1** **M1** **A1** **[3]**	**1.1** **1.1** **1.1**	Correct expression for $\overrightarrow{AB}$ Attempt expression for $\overrightarrow{DC}$ Implied by correct simplified vector Correct simplified expression for $\overrightarrow{DC}$	Ignore any numerical vectors Or attempt $\overrightarrow{CD}$ ie $\pm[(\mathbf{a} + 3\mathbf{b}) - (3\mathbf{a} + \mathbf{b})]$ Brackets soi **M1** could be implied by answer of $2\mathbf{a} - 2\mathbf{b}$ Ignore any numerical vectors
	(b)	(ii)	$\overrightarrow{DC} = 2(\mathbf{b} - \mathbf{a}) = 2\overrightarrow{AB}$ hence a pair of parallel sides (so $ABCD$ is a trapezium)	**B1** **[1]**	**2.4**	Clearly state or demonstrate that one is a multiple of the other to correctly confirm that $\overrightarrow{AB}$ and $\overrightarrow{DC}$ are **parallel** Must have correct $\overrightarrow{AB}$ and $\overrightarrow{DC}$	**Parallel** must be seen in explanation It is not sufficient to simply say that the 2 relevant sides are parallel with no evidence Ignore any other statements unless contradictory Ignore any attempts to compare other two sides