

Q	Answer	Mark	Comments
1	SSS	B1	

Q	Answer	Mark	Comments
2	RHS	B1	

Q	Answer	Mark	Comments
3	True Not true Not true True	B4	B1 each correct answer
	Additional Guidance		
	Allow a cross if it's the only answer in that row		
	If one tick and one or two crosses are given in a row, mark the tick		

Q	Answer	Mark	Comment
4	Any one of $(\overrightarrow{QW}) = \mathbf{a} + \mathbf{b} - \frac{1}{3}\mathbf{a}$ $(\overrightarrow{WX}) = \frac{1}{3}\mathbf{a} + \frac{1}{2}\mathbf{b}$ $(\overrightarrow{QX}) = \mathbf{a} + \mathbf{b} + \frac{1}{2}\mathbf{b}$	M1	oe eg $(\overrightarrow{QW}) = \frac{2}{3}\mathbf{a} + \mathbf{b}$ or $(\overrightarrow{WX}) = -\frac{2}{3}\mathbf{a} + \mathbf{b} + \mathbf{a} - \frac{1}{2}\mathbf{b}$ or $(\overrightarrow{QX}) = \mathbf{a} + \frac{3}{2}\mathbf{b}$ allow use of $\overrightarrow{WQ}$ and/or $\overrightarrow{XW}$ and/or $\overrightarrow{XQ}$
	Any two of $(\overrightarrow{QW}) = \mathbf{a} + \mathbf{b} - \frac{1}{3}\mathbf{a}$ $(\overrightarrow{WX}) = \frac{1}{3}\mathbf{a} + \frac{1}{2}\mathbf{b}$ $(\overrightarrow{QX}) = \mathbf{a} + \mathbf{b} + \frac{1}{2}\mathbf{b}$	M1dep	oe allow use of $\overrightarrow{WQ}$ and/or $\overrightarrow{XW}$ and/or $\overrightarrow{XQ}$
	Any valid pair of vectors and indication that one vector is a multiple of the other eg $\overrightarrow{QW} = \frac{2}{3}\mathbf{a} + \mathbf{b}$ and $\overrightarrow{WX} = \frac{1}{3}\mathbf{a} + \frac{1}{2}\mathbf{b}$ and $\frac{2}{3}\mathbf{a} + \mathbf{b} = 2\left(\frac{1}{3}\mathbf{a} + \frac{1}{2}\mathbf{b}\right)$	A1	eg $\overrightarrow{QW} = \frac{2}{3}\mathbf{a} + \mathbf{b}$ and $\overrightarrow{XQ} = -\mathbf{a} - \frac{3}{2}\mathbf{b}$ and $3\overrightarrow{QW} = -2\overrightarrow{XQ}$ or $\overrightarrow{QX} = \mathbf{a} + \frac{3}{2}\mathbf{b}$ and $\overrightarrow{WX} = \frac{1}{3}\mathbf{a} + \frac{1}{2}\mathbf{b}$ and $WX$ is $\frac{1}{3}$ of $QX$ and $WX$ is parallel to $QX$
	<b>Additional Guidance</b>		
	Up to M2 may be awarded for correct work with no answer, or incorrect answer, even if this is seen amongst multiple attempts		

Q	Answer	Mark	Comments
5	SSS	B1	