

17	(a)	$\left[\begin{matrix} \vec{OB} \end{matrix} = \begin{pmatrix} 3 \\ -2 \end{pmatrix} - \begin{pmatrix} 5 \\ -9 \end{pmatrix} \text{ or } \begin{pmatrix} 3 \\ -2 \end{pmatrix} + \begin{pmatrix} -5 \\ 9 \end{pmatrix} \text{ or}$		2	M1 for a correct method to find \vec{OB} or may be implied by one correct value ie $\begin{pmatrix} -2 \\ \dots \end{pmatrix}$ or $\begin{pmatrix} \dots \\ 7 \end{pmatrix}$ or for $\begin{pmatrix} 7 \\ -2 \end{pmatrix}$ Must be seen on (a)
			$\begin{pmatrix} -2 \\ 7 \end{pmatrix}$		A1
	(b)	$\sqrt{(-2)^2 + 7^2} [= 7.28...] \text{ oe}$		2	M1 allow use of 2 rather than -2 and -7 rather than 7. May be implied by a correct answer or awrt 7.28 Condone missing brackets around negative values. Only ft their values from (a) or \vec{OB} found in (b) if working shown (allow \pm their values)
			$\sqrt{53}$		A1 ft their answer (as a simplified surd) to (a) or \vec{OB} found in (b) Do not ISW. This mark implies the M1 If no working is shown you may need to check.
		<i>cas</i>			Total 4 marks

Question	Working	Answer	Mark	Notes
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