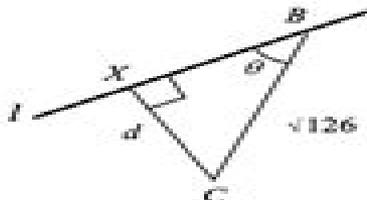


Question Number	Scheme	Marks	
Q7	<p>(a) $\overline{AB} = \overline{OB} - \overline{OA} = \begin{pmatrix} 10 \\ 14 \\ -4 \end{pmatrix} - \begin{pmatrix} 8 \\ 13 \\ -2 \end{pmatrix} = \begin{pmatrix} 2 \\ 1 \\ -2 \end{pmatrix}$ or $\overline{BA} = \begin{pmatrix} -2 \\ -1 \\ 2 \end{pmatrix}$</p> <p>$\mathbf{r} = \begin{pmatrix} 8 \\ 13 \\ -2 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ 1 \\ -2 \end{pmatrix}$ or $\mathbf{r} = \begin{pmatrix} 10 \\ 14 \\ -4 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ 1 \\ -2 \end{pmatrix}$ accept equivalents</p>	<p>M1</p> <p>M1 A1ft (3)</p>	
(b)	<p>$\overline{CB} = \overline{OB} - \overline{OC} = \begin{pmatrix} 10 \\ 14 \\ -4 \end{pmatrix} - \begin{pmatrix} 9 \\ 9 \\ 6 \end{pmatrix} = \begin{pmatrix} 1 \\ 5 \\ -10 \end{pmatrix}$ or $\overline{BC} = \begin{pmatrix} -1 \\ -5 \\ 10 \end{pmatrix}$</p> <p>$CB = \sqrt{(1^2 + 5^2 + (-10)^2)} = \sqrt{126}$ ($= 3\sqrt{14} \approx 11.2$) awrt 11.2</p>	<p>M1 A1 (2)</p>	
(c)	<p>$\overline{CB} \cdot \overline{AB} = \overline{CB} \overline{AB} \cos \theta$</p> <p>$(\pm)(2 + 5 + 20) = \sqrt{126} \sqrt{9} \cos \theta$</p> <p>$\cos \theta = \frac{3}{\sqrt{14}} \Rightarrow \theta \approx 36.7^\circ$ awrt 36.7°</p>	<p>M1 A1</p> <p>A1 (3)</p>	
(d)	 <p>$\frac{d}{\sqrt{126}} = \sin \theta$</p> <p>$d = 3\sqrt{5} (\approx 6.7)$ awrt 6.7</p>	<p>M1 A1ft</p> <p>A1 (3)</p>	
(e)	<p>$BX^2 = BC^2 - d^2 = 126 - 45 = 81$</p> <p>$\therefore CBX = \frac{1}{2} \times BX \times d = \frac{1}{2} \times 9 \times 3\sqrt{5} = \frac{27\sqrt{5}}{2}$ (≈ 30.2) awrt 30.1 or 30.2</p>	<p>M1</p> <p>M1 A1 (3)</p>	
[14]			
<i>Alternative for (e)</i>			
<p>$\therefore CBX = \frac{1}{2} \times d \times BC \sin \angle XCB$</p> <p>$= \frac{1}{2} \times 3\sqrt{5} \times \sqrt{126} \sin (90 - 36.7)^\circ$ sine of correct angle</p> <p>≈ 30.2 $\frac{27\sqrt{5}}{2}$, awrt 30.1 or 30.2</p>			<p>M1</p> <p>M1</p> <p>A1 (3)</p>

Edexcel Maths Vectors Past Paper

Wenbin Ji

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle overlapping the right side of the bar.

Edexcel Maths Vectors Past Paper:

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