

Question 7



The diagram shows a trapezium ABCD in which BA is parallel to CD. The position vectors of A, B and C relative to an origin O are given by

$$\vec{OA} = \begin{pmatrix} 3 \\ 1 \\ 0 \end{pmatrix}, \quad \vec{OB} = \begin{pmatrix} 1 \\ 3 \\ 2 \end{pmatrix} \text{ and } \vec{OC} = \begin{pmatrix} 4 \\ 5 \\ 6 \end{pmatrix}$$

- i) Use a scalar product to show that AB is perpendicular to BC
- ii) Given that the length of CD is 12 units, find the position vector of D

$$i) \quad \vec{AB} = \vec{AO} + \vec{OB} = \begin{pmatrix} -3 \\ -1 \\ 0 \end{pmatrix} + \begin{pmatrix} 1 \\ 3 \\ 2 \end{pmatrix} = \begin{pmatrix} -2 \\ 2 \\ 2 \end{pmatrix}$$

$$\vec{BC} = \vec{BO} + \vec{OC} = \begin{pmatrix} -1 \\ -3 \\ -2 \end{pmatrix} + \begin{pmatrix} 4 \\ 5 \\ 6 \end{pmatrix} = \begin{pmatrix} 3 \\ 2 \\ 4 \end{pmatrix}$$

$$AB = |\vec{AB}| = \sqrt{(-2)^2 + (2)^2 + (2)^2} = 3 \text{ units}$$

$$BC = |\vec{BC}| = \sqrt{3^2 + 2^2 + 4^2} = \sqrt{29} \text{ units}$$

$$\vec{AB} \cdot \vec{BC} = \begin{pmatrix} -2 \\ 2 \\ 2 \end{pmatrix} \cdot \begin{pmatrix} 3 \\ 2 \\ 4 \end{pmatrix} = (-2) \times 3 + (2) \times 2 + (2) \times 4 = -6 + 4 + 8 = 6 \neq 0$$

$$\vec{AB} \cdot \vec{BC} = AB \times BC \times \cos(\hat{ABC}) \rightarrow \cos(\hat{ABC}) = \frac{6}{3 \times \sqrt{29}} \neq 0 \rightarrow \hat{ABC} \neq 90^\circ$$

So: $AB \perp BC$

$$ii) \quad CD = 12 \text{ units} \quad AB = 3 \text{ units}$$

$$\vec{CD} \parallel \vec{BA} \rightarrow \vec{CD} = K \vec{BA}, \quad K > 0$$

$$CD = K \cdot BA \rightarrow 12 = K \cdot 3 \rightarrow K = 4$$

$$\vec{OD} = 4 \cdot \begin{pmatrix} +2 \\ +1 \\ -2 \end{pmatrix} = \begin{pmatrix} +8 \\ +4 \\ -8 \end{pmatrix} \rightarrow \vec{CO} + \vec{OD} = \begin{pmatrix} +8 \\ +4 \\ -8 \end{pmatrix} \rightarrow \vec{OD} = \begin{pmatrix} +8 \\ +4 \\ -8 \end{pmatrix} + \begin{pmatrix} 4 \\ 5 \\ 6 \end{pmatrix} = \begin{pmatrix} 12 \\ 9 \\ -2 \end{pmatrix}$$

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