

- 7 Points $A(2, 2, 5)$, $B(1, -1, -4)$, $C(3, 3, 10)$ and $D(8, 6, 3)$ are the vertices of a pyramid with a triangular base.

$$\vec{OA} = \begin{pmatrix} 2 \\ 2 \\ 5 \end{pmatrix} \quad \vec{OB} = \begin{pmatrix} 1 \\ -1 \\ -4 \end{pmatrix} \quad \vec{OC} = \begin{pmatrix} 3 \\ 3 \\ 10 \end{pmatrix}$$

- (i) Calculate the lengths AB and AC , and the angle BAC . [4]

- (ii) Show that \vec{AD} is perpendicular to both \vec{AB} and \vec{AC} . [3]

- (iii) Calculate the volume of the pyramid $ABCD$. [3]

[The volume of the pyramid is $V = \frac{1}{3} \times \text{base area} \times \text{perpendicular height}$.]

i) $\vec{AB} = \vec{OB} - \vec{OA} = \begin{pmatrix} -1 \\ -3 \\ -9 \end{pmatrix}$ 3 shows $AB = \sqrt{1^2 + 3^2 + 9^2} = \sqrt{91}$ ii) $\vec{AC} = \begin{pmatrix} 1 \\ 1 \\ 5 \end{pmatrix}$, $\vec{AB} = \begin{pmatrix} -1 \\ -3 \\ -9 \end{pmatrix}$, $\vec{AD} = \begin{pmatrix} 6 \\ 4 \\ -2 \end{pmatrix}$

$\vec{AC} = \vec{OC} - \vec{OA} = \begin{pmatrix} 1 \\ 1 \\ 5 \end{pmatrix}$ 3 shows $AC = \sqrt{1^2 + 1^2 + 5^2} = \sqrt{27} = 3\sqrt{3}$ $\frac{\vec{AB} \cdot \vec{AC}}{AB \cdot AC} = \frac{-1 + 3 + 45}{\sqrt{91} \cdot \sqrt{27}} = \frac{47}{3\sqrt{273}}$ $\frac{\vec{AD} \cdot \vec{AB}}{AD \cdot AB} = \frac{6 + 12 + 18}{\sqrt{52} \cdot \sqrt{91}} = \frac{36}{\sqrt{4702}}$

Angle $\vec{AB} \cdot \vec{AC} = -1 + 3 + 45 = 47 = \sqrt{91} \cdot \sqrt{27} \cos \theta$
 $\cos \theta = \frac{47}{3\sqrt{273}}$

$\theta = 171^\circ$

iii)



Area = $\frac{1}{2} \times \sqrt{91} \times 3\sqrt{3} \sin 171^\circ = 3.744889...$

Vol = $\frac{1}{3} \times 3.744889... \times 4$
 $= 9.933$

$44 = \sqrt{6^2 + 4^2 + 2^2} = \sqrt{56} = 2\sqrt{14}$

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