

- 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 $AC = \sqrt{1^2 + 1^2 + 5^2} = \sqrt{27} = 3\sqrt{3}$ $\frac{\vec{AD} \cdot \vec{AB}}{|\vec{AD}| \cdot |\vec{AB}|} = \frac{6(-1) + 4(-3) + (-2)(-9)}{\sqrt{36+16+4} \cdot \sqrt{91}} = \frac{-6-12+18}{\sqrt{56} \cdot \sqrt{91}} = 0$

$\vec{AD} \cdot \vec{AC} = 6(1) + 4(1) + (-2)(5) = 6 + 4 - 10 = 0$
 $\cos \theta = \frac{\vec{AD} \cdot \vec{AB}}{|\vec{AD}| \cdot |\vec{AB}|}$

$\theta = 171^\circ$

iii)



Area = $\frac{1}{2} \times \sqrt{11} \times 3\sqrt{3} \sin 171^\circ = 3.744889...$

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

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

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JG Myers



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opportunity for more Americans both young and old The editors of this volume contend that if as a nation we do nothing then we will continue to drift apart placing an unsustainable strain on the nation s social fabric and the character of its democracy Consequently understanding the dynamics governing the distribution and transmission of opportunity and transforming this understanding into policies and programs is critical for not only the life outcomes of individual Americans and their children but also the country as a whole The goal of Educational Testing Service s Opportunity in America initiative is to explore these powerful dynamics and to describe and convey them in a way that advances the national conversation about why we must take action and how best to do so This volume contains 14 chapters including an epilogue written by leaders from a range of fields including education economics demography and political science Collectively they not only illuminate key aspects of the problem but also offer suggestions of what policies programs and changes in practices could begin to reverse the trends we are seeing Written in an engaging style this volume constitutes an essential foundation for informed discussion and strategic analysis

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