

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

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

Angle $\angle BAC = \cos^{-1} \frac{\vec{AB} \cdot \vec{AC}}{|\vec{AB}| \cdot |\vec{AC}|} = \cos^{-1} \frac{(-1)(1) + (-3)(1) + (-9)(5)}{\sqrt{91} \cdot 3\sqrt{3}} = \cos^{-1} \frac{-47}{3\sqrt{273}}$

$\theta = 171^\circ$

iii)



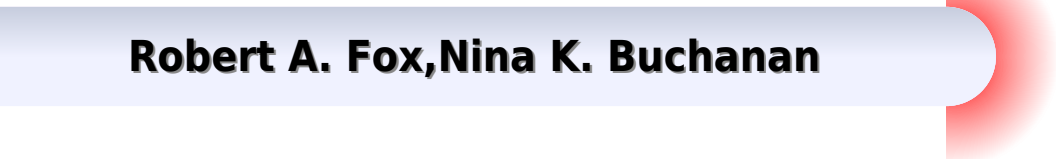
Area $= \frac{1}{2} \times \sqrt{91} \times 3\sqrt{3} \sin 171^\circ = 3.744889...$

Vol $= \frac{1}{3} \times 3.744889... \times 4$
 $= 4.993185...$
 ≈ 5.0

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

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Robert A. Fox, Nina K. Buchanan



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web apr 23 2023 while the defending wsm champion tom stoltman won the event second place finisher mitchell hooper has become the 2023 world s strongest man based on the point standings at the end of the five day competition tom stoltman 5 stones 33 26 seconds mitchell hooper 5 stones 36 96 seconds trey mitchell 5 reps 45 72

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web the 2021 world s strongest man was the 44th edition of the world s strongest man competition an event that took place in sacramento california from june 15 to june 20 2021 1 the defending champion was oleksii novikov of ukraine however he failed to progress to the final after coming fourth in his heat

the strongest man in the world wikipedia - Jun 16 2022

web the strongest man in the world is a 1975 american science fiction comedy film directed by vincent mceveety produced by walt disney productions and starring kurt russell joe flynn in his first of two posthumous roles and eve arden it was the third and final film for the series dexter riley

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web mark felix paul smith jean stephen coraboeuf 6 originally pavlo nakonechnyy of ukraine and cheick sanou iron biby of burkina faso were set to compete in this competition but both withdrew through injuries being replaced by reserves thomas evans and kristján jón haraldsson respectively

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