

- 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 $V = \frac{1}{3} \times \text{base area} \times \text{perpendicular height}$.]

$$i) \quad \vec{AB} = \vec{OB} - \vec{OA} = \begin{pmatrix} -1 \\ -3 \\ -9 \end{pmatrix} \quad \text{So then } AB = \sqrt{(-1)^2 + (-3)^2 + (-9)^2} = \sqrt{91}$$

$$\vec{AC} = \vec{OC} - \vec{OA} = \begin{pmatrix} 1 \\ 1 \\ 5 \end{pmatrix} \quad \text{So then } AC = \sqrt{1^2 + 1^2 + 5^2} = \sqrt{27} = 3\sqrt{3}$$

$$\vec{AB} \cdot \vec{AC} = (-1) \times 1 + (-3) \times 1 + (-9) \times 5 = -47$$

$$\vec{AB} \cdot \vec{AD} = (-1) \times (-2) + (-3) \times (-2) + (-9) \times (-5) = 47$$

$$\cos \theta = \frac{\vec{AB} \cdot \vec{AC}}{AB \cdot AC} = \frac{-47}{\sqrt{91} \cdot 3\sqrt{3}}$$

$$\theta = 171^\circ$$

iii)



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

$$\text{Vol} = \frac{1}{3} \times 3.744889... \times 6 = 7.489778...$$

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

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Table of Contents Ocr Core 4 June 2013

1. Understanding the eBook Ocr Core 4 June 2013
 - The Rise of Digital Reading Ocr Core 4 June 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Core 4 June 2013
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ocr Core 4 June 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Core 4 June 2013
 - Personalized Recommendations
 - Ocr Core 4 June 2013 User Reviews and Ratings
 - Ocr Core 4 June 2013 and Bestseller Lists
5. Accessing Ocr Core 4 June 2013 Free and Paid eBooks
 - Ocr Core 4 June 2013 Public Domain eBooks
 - Ocr Core 4 June 2013 eBook Subscription Services
 - Ocr Core 4 June 2013 Budget-Friendly Options
6. Navigating Ocr Core 4 June 2013 eBook Formats

- ePub, PDF, MOBI, and More
- Ocr Core 4 June 2013 Compatibility with Devices
- Ocr Core 4 June 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Core 4 June 2013
 - Highlighting and Note-Taking Ocr Core 4 June 2013
 - Interactive Elements Ocr Core 4 June 2013
- 8. Staying Engaged with Ocr Core 4 June 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr Core 4 June 2013
- 9. Balancing eBooks and Physical Books Ocr Core 4 June 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Core 4 June 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr Core 4 June 2013
 - Setting Reading Goals Ocr Core 4 June 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr Core 4 June 2013
 - Fact-Checking eBook Content of Ocr Core 4 June 2013
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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