

Exercise 10.2

1. Compute the magnitude of the following vectors:

$$\vec{a} = \hat{i} + \hat{j} + \hat{k}; \quad \vec{b} = 2\hat{i} - 7\hat{j} - 3\hat{k}; \quad \vec{c} = \frac{1}{\sqrt{3}}\hat{i} + \frac{1}{\sqrt{3}}\hat{j} - \frac{1}{\sqrt{3}}\hat{k}$$

Solution:

Given vectors are:

$$\vec{a} = \hat{i} + \hat{j} + \hat{k}; \quad \vec{b} = 2\hat{i} - 7\hat{j} - 3\hat{k}; \quad \vec{c} = \frac{1}{\sqrt{3}}\hat{i} + \frac{1}{\sqrt{3}}\hat{j} - \frac{1}{\sqrt{3}}\hat{k}$$

$$|\vec{a}| = \sqrt{(1)^2 + (1)^2 + (1)^2} = \sqrt{3}$$

$$\begin{aligned} |\vec{b}| &= \sqrt{(2)^2 + (-7)^2 + (-3)^2} \\ &= \sqrt{4 + 49 + 9} \\ &= \sqrt{62} \end{aligned}$$

$$\begin{aligned} |\vec{c}| &= \sqrt{\left(\frac{1}{\sqrt{3}}\right)^2 + \left(\frac{1}{\sqrt{3}}\right)^2 + \left(-\frac{1}{\sqrt{3}}\right)^2} \\ &= \sqrt{\frac{1}{3} + \frac{1}{3} + \frac{1}{3}} = 1 \end{aligned}$$

2. Write two different vectors having same magnitude.

Solution:

$$\text{Consider } \vec{a} = (\hat{i} - 2\hat{j} + 4\hat{k}) \text{ and } \vec{b} = (2\hat{i} + \hat{j} - 4\hat{k}).$$

It can be observed that $|\vec{a}| = \sqrt{1^2 + (-2)^2 + 4^2} = \sqrt{1 + 4 + 16} = \sqrt{21}$ and

$$|\vec{b}| = \sqrt{2^2 + 1^2 + (-4)^2} = \sqrt{4 + 1 + 16} = \sqrt{21}$$

Thus, \vec{a} and \vec{b} are two different vectors having the same magnitude. Here, the vectors are different as they have different directions.

3. Write two different vectors having same direction.

Solution:

Two different vectors having same directions are:

Let us

$$\text{Consider } \vec{p} = (\hat{i} + \hat{j} + \hat{k}) \text{ and } \vec{q} = (2\hat{i} + 2\hat{j} + 2\hat{k}).$$

The direction cosines of \vec{p} are given by,

$$l = \frac{1}{\sqrt{1^2 + 1^2 + 1^2}} = \frac{1}{\sqrt{3}}, \quad m = \frac{1}{\sqrt{1^2 + 1^2 + 1^2}} = \frac{1}{\sqrt{3}}, \quad \text{and } n = \frac{1}{\sqrt{1^2 + 1^2 + 1^2}} = \frac{1}{\sqrt{3}}$$

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Rachel S Tattersall



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Table of Contents Ncert 12 Exercise Solution Bing

1. Understanding the eBook Ncert 12 Exercise Solution Bing
 - The Rise of Digital Reading Ncert 12 Exercise Solution Bing
 - Advantages of eBooks Over Traditional Books
2. Identifying Ncert 12 Exercise Solution Bing
 - 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 Ncert 12 Exercise Solution Bing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ncert 12 Exercise Solution Bing
 - Personalized Recommendations
 - Ncert 12 Exercise Solution Bing User Reviews and Ratings
 - Ncert 12 Exercise Solution Bing and Bestseller Lists
5. Accessing Ncert 12 Exercise Solution Bing Free and Paid eBooks
 - Ncert 12 Exercise Solution Bing Public Domain eBooks
 - Ncert 12 Exercise Solution Bing eBook Subscription Services
 - Ncert 12 Exercise Solution Bing Budget-Friendly Options

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

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- Interactive and Gamified eBooks

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