

# Physics

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(Chapter 3) (Motion in a Plane) (Exercises)

(Class 11)

$$|\vec{a} - \vec{b}| < |\vec{a}| + |-\vec{b}|$$

$$|\vec{a} - \vec{b}| < |\vec{a}| + |\vec{b}| \quad \dots(\text{iii})$$

If the two vectors act in a straight line but in opposite directions, then we can write:

$$|\vec{a} - \vec{b}| = |\vec{a}| + |\vec{b}| \quad \dots(\text{iv})$$

Combining equations (iii) and (iv), we get:

$$|\vec{a} - \vec{b}| \leq |\vec{a}| + |\vec{b}|$$

**(d)** Let two vectors  $\vec{a}$  and  $\vec{b}$  be represented by the adjacent sides of a parallelogram PQRS, as shown in the given figure.

The following relations can be written for the given parallelogram.

$$OS + PS = OP \quad \dots(\text{i})$$

$$OS = PS - OP \quad \dots(\text{ii})$$

$$|\vec{a} - \vec{b}| > |\vec{a}| + |\vec{b}| \quad \dots(\text{iii})$$

The quantity on the LHS is always positive and that on the RHS can be positive or negative. To make both quantities positive, we take modulus on both sides as:

$$|\vec{a} - \vec{b}| > |\vec{a}| - |\vec{b}|$$

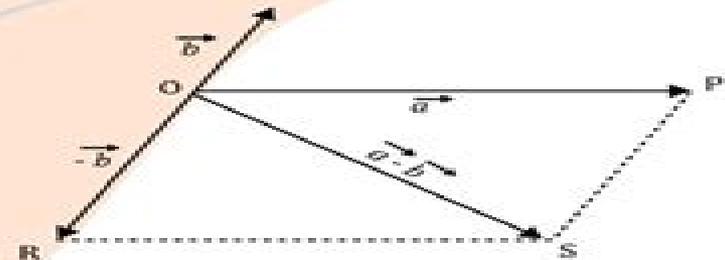
$$|\vec{a} - \vec{b}| > |\vec{a}| - |\vec{b}| \quad \dots(\text{iv})$$

If the two vectors act in a straight line but in the opposite directions, then we can write:

$$|\vec{a} - \vec{b}| = |\vec{a}| - |\vec{b}| \quad \dots(\text{v})$$

Combining equations (iv) and (v), we get:

$$|\vec{a} - \vec{b}| \geq |\vec{a}| - |\vec{b}|$$



## Question 3.7:

Given  $\vec{a} + \vec{b} + \vec{c} + \vec{d} = \vec{0}$ , which of the following statements are correct:

- (a)  $\vec{a}$ ,  $\vec{b}$ ,  $\vec{c}$ , and  $\vec{d}$  must each be a null vector,
- (b) The magnitude of  $(\vec{a} + \vec{c})$  equals the magnitude of  $(\vec{b} + \vec{d})$ .
- (c) The magnitude of  $\vec{a}$  can never be greater than the sum of the magnitudes of  $\vec{b}$ ,  $\vec{c}$ , and  $\vec{d}$ .
- (d)  $\vec{b} + \vec{c}$  must lie in the plane of  $\vec{a}$  and  $\vec{d}$ , if  $\vec{a}$  and  $\vec{d}$  are not collinear, and in the line of  $\vec{a}$  and  $\vec{d}$ , if they are collinear?

## Answer 3.7:

(a) Incorrect

In order to make  $\vec{a} + \vec{b} + \vec{c} + \vec{d} = \vec{0}$ , it is not necessary to have all the four given vectors to be null vectors. There are many other combinations which can give the sum zero.

# Physics Chapter 3 Answers

**Lyman Churchill Newell**



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## **Table of Contents Physics Chapter 3 Answers**

1. Understanding the eBook Physics Chapter 3 Answers
  - The Rise of Digital Reading Physics Chapter 3 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Chapter 3 Answers
  - 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 Physics Chapter 3 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Chapter 3 Answers
  - Personalized Recommendations
  - Physics Chapter 3 Answers User Reviews and Ratings
  - Physics Chapter 3 Answers and Bestseller Lists
5. Accessing Physics Chapter 3 Answers Free and Paid eBooks
  - Physics Chapter 3 Answers Public Domain eBooks
  - Physics Chapter 3 Answers eBook Subscription Services
  - Physics Chapter 3 Answers Budget-Friendly Options
6. Navigating Physics Chapter 3 Answers eBook Formats

- ePub, PDF, MOBI, and More
  - Physics Chapter 3 Answers Compatibility with Devices
  - Physics Chapter 3 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Physics Chapter 3 Answers
    - Highlighting and Note-Taking Physics Chapter 3 Answers
    - Interactive Elements Physics Chapter 3 Answers
  8. Staying Engaged with Physics Chapter 3 Answers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Physics Chapter 3 Answers
  9. Balancing eBooks and Physical Books Physics Chapter 3 Answers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Physics Chapter 3 Answers
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Physics Chapter 3 Answers
    - Setting Reading Goals Physics Chapter 3 Answers
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Physics Chapter 3 Answers
    - Fact-Checking eBook Content of Physics Chapter 3 Answers
    - 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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