

# Physics

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(Chapter 3) (Motion in a straight line) (Exercises)

(Class 11)

Total time taken in the whole journey = 30 + 20 = 50 min

$$\text{Average velocity} = \frac{\text{Displacement}}{\text{Time}} = \frac{2.4}{1} = 5 \text{ km/h} \quad \dots \text{(a(i))}$$

$$\text{Average speed} = \frac{\text{Distance}}{\text{Time}} = \frac{2.5}{1} = 5 \text{ km/h} \quad \dots \text{(b(i))}$$

$$\text{Time} = 50 \text{ min} = \frac{5}{6} \text{ h}$$

Net displacement = 0

Total distance = 2.5 + 2.5 = 5 km

$$\text{Average velocity} = \frac{\text{Displacement}}{\text{Time}} = 0 \quad \dots \text{(a(ii))}$$

$$\text{Average speed} = \frac{\text{Distance}}{\text{Time}} = \frac{5}{6} = 6 \text{ km/h} \quad \dots \text{(b(ii))}$$

Speed of the man = 7.5 km/h

Distance travelled in first 30 min = 2.5 km

Distance travelled by the man (from market to home) in the next 10 min

$$= 7.5 \times \frac{10}{60} = 1.25 \text{ km}$$

Net displacement = 2.5 - 1.25 = 1.25 km

Total distance travelled = 2.5 + 1.25 = 3.75 km

$$\text{Average velocity} = \frac{1.25}{\left(\frac{40}{60}\right)} = \frac{1.25 \times 3}{2} = 1.875 \text{ km/h} \quad \dots \text{(a(iii))}$$

$$\text{Average speed} = \frac{3.75}{\left(\frac{40}{60}\right)} = 5.625 \text{ km/h} \quad \dots \text{(b(iii))}$$

## Question 3.15:

In Exercises 3.13 and 3.14, we have carefully distinguished between average speed and magnitude of average velocity. No such distinction is necessary when we consider instantaneous speed and magnitude of velocity. The instantaneous speed is always equal to the magnitude of instantaneous velocity. Why?

## Answer 3.15:

Instantaneous velocity is given by the first derivative of distance with respect to time i.e.,

$$V_{\text{in}} = \frac{dx}{dt}$$

Here, the time interval  $dt$  is so small that it is assumed that the particle does not change its direction of motion. As a result, both the total path length and magnitude of displacement become equal in this interval of time.

Therefore, instantaneous speed is always equal to instantaneous velocity.

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# Mastering Physics Solutions Chapter 3

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### **Table of Contents Mastering Physics Solutions Chapter 3**

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

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