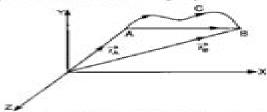
## Kinematics

Syllabus: Motion in a straight line, uniform notion, its graphical representation, uniform accelerated motion and its applications, projectile motion.

#### Review of Concepts

 Time: It is measure of succession of events. It is a scalar quantity. If any event is started at t = 0 then time will not be negative. But if the observation is started after the start of event then time may be negative.

2. Distance and Displacement: Suppose an insect is at a point A(x<sub>1</sub>, y<sub>1</sub>, z<sub>1</sub>) at t = t<sub>1</sub>. It reaches at point B(x<sub>2</sub>, y<sub>2</sub>, z<sub>2</sub>) at t = t<sub>2</sub> through path ACB with respect to the frame shown in figure. The actual length of curved path ACB is the distance travelled by the insect in time Δt = t<sub>2</sub> − t<sub>1</sub>.



If we connect point A (initial position) and point B (final position) by a straight line, then the length of straight line AB gives the magnitude of displacement of insect in time interval  $\Delta t = t_2 - t_1$ .

The direction of displacement is directed from A to B through the straight line AB. From the concept of vector, the position vector of  $\overrightarrow{A}$  is  $\overrightarrow{r_A} = x_1 \hat{1} + y_1 \hat{j} + z_1 \hat{k}$  and that of B is  $\overrightarrow{r_B} = x_2 \hat{1} + y_2 \hat{j} + z_2 \hat{k}$ .

According to addition law of vectors,

$$\vec{r}_{A} + \vec{A}\vec{B} = \vec{r}_{B}$$

$$\vec{A}\vec{B} = \vec{r}_{B} - \vec{r}_{A}$$

$$= (x_{2} - x_{1}) \hat{i} + (x_{2} - y_{1}) \hat{j} + (z_{2} - z_{1}) \hat{k}$$

The magnitude of displacement is

$$|AB| = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}$$

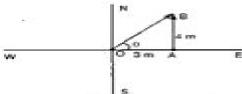
Some Conceptual Points:

- (i) Distance is a scalar quantity.
- (ii) Distance never be negative.
- (iii) For moving body, distance is always greater than zero.
- (iv) Distance never be equal to displacement.
- (v) Displacement is a vector quantity

- (vi) If a body is moving continuously in a given direction on a straight line, then the magnitude of displacement is equal to distance.
- (vii) Generally, the magnitude of displacement is less or equal to distance.
- (viii) Many paths are possible between two points. For different paths between two points, distances are different but magnitudes of displacement are same.
- (ix) The slope of distance-time graph is always greater or equal to zero.
- (x) The slope of displacement-time graph may be negative.

Example: A man walks 3 m in east direction, then 4 m in north direction. Find distance covered and the displacement covered by man.

Solution: The distance covered by man is the length of path = 3 m + 4 m = 7 m.



Let the man starts from O and reaches finally at B (shown in figure). OB represents the displacement of man. From figure,

$$|OB| = (OA)^2 + (AB)^2$$
=  $(3 \text{ m})^2 + (4 \text{ m})^2 = 5 \text{ m}$ 
and 
$$\tan \theta = \frac{4 \text{ m}}{3 \text{ m}} - \frac{4}{3}$$
∴ 
$$0 = \tan^{-1} \left(\frac{4}{3}\right)$$

The displacement is directed at an angle  $tan^{-1}\left(\frac{4}{3}\right)$  north of east.

3. Average Speed and Average Velocity: Suppose we wish to calculate the average speed and average velocity of the insect (in section 2) between i = i1 and i = i2. From the path (shown in figure) we see that at i = i1, the position of

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

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  - Kinematics Workseet 2 Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Kinematics Workseet 2 Answer Key
  - Highlighting and Note-Taking Kinematics Workseet 2 Answer Key
  - Interactive Elements Kinematics Workseet 2 Answer Key
- 8. Staying Engaged with Kinematics Workseet 2 Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Kinematics Workseet 2 Answer Key
- 9. Balancing eBooks and Physical Books Kinematics Workseet 2 Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Kinematics Workseet 2 Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Kinematics Workseet 2 Answer Key
  - Setting Reading Goals Kinematics Workseet 2 Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Kinematics Workseet 2 Answer Key
  - Fact-Checking eBook Content of Kinematics Workseet 2 Answer Key
  - 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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