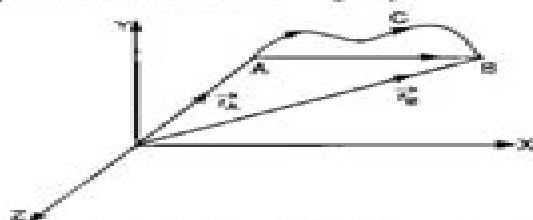


Syllabus: Motion in a straight line, uniform motion, its graphical representation, uniform accelerated motion and its applications, projectile motion.

Review of Concepts

1. **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 $A(x_1, y_1, z_1)$ at $t = t_1$. It reaches at point $B(x_2, y_2, z_2)$ at $t = t_2$ 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 $\Delta t = t_2 - t_1$.



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 A is $\vec{r}_A = x_1\hat{i} + y_1\hat{j} + z_1\hat{k}$ and that of B is $\vec{r}_B = x_2\hat{i} + y_2\hat{j} + z_2\hat{k}$.

According to addition law of vectors,

$$\vec{r}_A + \vec{AB} = \vec{r}_B$$

$$\therefore \vec{AB} = \vec{r}_B - \vec{r}_A = (x_2 - x_1)\hat{i} + (y_2 - y_1)\hat{j} + (z_2 - z_1)\hat{k}$$

The magnitude of displacement is

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

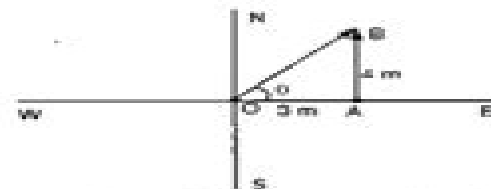
Some Conceptual Points :

- Distance is a scalar quantity.
- Distance never be negative.
- For moving body, distance is always greater than zero.
- Distance never be equal to displacement.
- Displacement is a vector quantity.

- If a body is moving continuously in a given direction on a straight line, then the magnitude of displacement is equal to distance.
- Generally, the magnitude of displacement is less or equal to distance.
- Many paths are possible between two points. For different paths between two points, distances are different but magnitudes of displacement are same.
- The slope of distance-time graph is always greater or equal to zero.
- 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). \vec{OB} represents the displacement of man. From figure,

$$|\vec{OB}| = (\vec{OA})^2 + (\vec{AB})^2 = (3\text{ m})^2 + (4\text{ m})^2 = 5\text{ m}$$

and

$$\tan \theta = \frac{4\text{ m}}{3\text{ m}} = \frac{4}{3}$$

$$\therefore \theta = \tan^{-1}\left(\frac{4}{3}\right)$$

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 $t = t_1$ and $t = t_2$. From the path (shown in figure) we see that at $t = t_1$, the position of

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Table of Contents Kinematics Workseet 2 Answer Key

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
6. Navigating Kinematics Workseet 2 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Kinematics Workseet 2 Answer Key Compatibility with Devices
 - Kinematics Workseet 2 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - 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
 - Interactive and Gamified eBooks

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