

Exercise -2(C)

1. Write three equations of uniformly accelerated motion relating the initial velocity ( $u$ ), final velocity ( $v$ ), time ( $t$ ), acceleration ( $a$ ) and displacement ( $S$ ).

**Solution:**

The three equations of uniformly accelerated motion relating to initial velocity( $u$ ), final velocity( $v$ ), time( $t$ ), acceleration( $a$ ) and displacement( $S$ ) are as follows:

- (i)  $v = u + at$
- (ii)  $S = ut + \frac{1}{2} at^2$
- (iii)  $v^2 = u^2 + 2As$

2. Derive the following equations for a uniformly accelerated motion:

- (i)  $v = u + at$
- (ii)  $S = ut + \frac{1}{2} at^2$
- (iii)  $v^2 = u^2 + 2As$

where the symbols have their usual meanings.

**Solution:**

Let initial velocity ( $u$ ), final velocity( $v$ ), time( $t$ ), acceleration( $a$ ) and displacement( $S$ )



**First law of Motion**

- (i) We know that acceleration is the rate of change of velocity:

$$\text{Acceleration} = \frac{\text{change in velocity}}{\text{time taken}}$$

$$a = \frac{\text{Final velocity} - \text{Initial velocity}}{\text{time taken}}$$

$$a = \frac{v - u}{t}$$

$$at = v - u$$

$$\therefore v = u + at$$

----- equation (1)

- (ii) We know that distance travelled = average velocity x time

$$S = \frac{\text{Initial velocity} + \text{Final velocity}}{2} \times \text{time}$$

$$S = \frac{u + v}{2} \times \text{time}$$

From equation (1),  $v = u + at$ , substituting the value of  $v$  in the above equation:

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**Ian Pickup**



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## **Table of Contents Holt Physics Problem Solutions Chapter 2 Motion**

1. Understanding the eBook Holt Physics Problem Solutions Chapter 2 Motion
  - The Rise of Digital Reading Holt Physics Problem Solutions Chapter 2 Motion
  - Advantages of eBooks Over Traditional Books
2. Identifying Holt Physics Problem Solutions Chapter 2 Motion
  - 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 Holt Physics Problem Solutions Chapter 2 Motion
  - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Physics Problem Solutions Chapter 2 Motion
  - Personalized Recommendations
  - Holt Physics Problem Solutions Chapter 2 Motion User Reviews and Ratings
  - Holt Physics Problem Solutions Chapter 2 Motion and Bestseller Lists

5. Accessing Holt Physics Problem Solutions Chapter 2 Motion Free and Paid eBooks
  - Holt Physics Problem Solutions Chapter 2 Motion Public Domain eBooks
  - Holt Physics Problem Solutions Chapter 2 Motion eBook Subscription Services
  - Holt Physics Problem Solutions Chapter 2 Motion Budget-Friendly Options
6. Navigating Holt Physics Problem Solutions Chapter 2 Motion eBook Formats
  - ePub, PDF, MOBI, and More
  - Holt Physics Problem Solutions Chapter 2 Motion Compatibility with Devices
  - Holt Physics Problem Solutions Chapter 2 Motion Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Holt Physics Problem Solutions Chapter 2 Motion
  - Highlighting and Note-Taking Holt Physics Problem Solutions Chapter 2 Motion
  - Interactive Elements Holt Physics Problem Solutions Chapter 2 Motion
8. Staying Engaged with Holt Physics Problem Solutions Chapter 2 Motion
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Holt Physics Problem Solutions Chapter 2 Motion
9. Balancing eBooks and Physical Books Holt Physics Problem Solutions Chapter 2 Motion
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Holt Physics Problem Solutions Chapter 2 Motion
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Holt Physics Problem Solutions Chapter 2 Motion
  - Setting Reading Goals Holt Physics Problem Solutions Chapter 2 Motion
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Holt Physics Problem Solutions Chapter 2 Motion
  - Fact-Checking eBook Content of Holt Physics Problem Solutions Chapter 2 Motion
  - 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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