

Physics

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(Chapter 2) (Motion in a straight line) (Exercises) (Class 11)

Question 2.14:

A police van moving on a highway with a speed of 30 km h^{-1} fires a bullet at a thief's car speeding away in the same direction with a speed of 192 km h^{-1} . If the muzzle speed of the bullet is 150 m s^{-1} , with what speed does the bullet hit the thief's car? (Note: Obtain that speed which is relevant for damaging the thief's car).

Answer 2.14:

Speed of the police van, $v_p = 30 \text{ km/h} = 8.33 \text{ m/s}$

Muzzle speed of the bullet, $v_b = 150 \text{ m/s}$

Speed of the thief's car, $v_t = 192 \text{ km/h} = 53.33 \text{ m/s}$

Since the bullet is fired from a moving van, its resultant speed can be obtained as:

$$= 150 + 8.33 = 158.33 \text{ m/s}$$

Since both the vehicles are moving in the same direction, the velocity with which the bullet hits the thief's car can be obtained as: $v_{be} = v_b - v_t$

$$= 158.33 - 53.33$$

$$= 105 \text{ m/s}$$

Question 2.15:

Suggest a suitable physical situation for each of the following graphs (See Figure):



Answer 2.15:

- (a) The given $x - t$ graph shows that initially a body was at rest. Then, its velocity increases with time and attains an instantaneous constant value. The velocity then reduces to zero with an increase in time. Then, its velocity increases with time in the opposite direction and acquires a constant value. A similar physical situation arises when a football (initially kept at rest) is kicked and gets rebound from a rigid wall so that its speed gets reduced. Then, it passes from the player who has kicked it and ultimately gets stopped after sometime.
- (b) In the given $v - t$ graph, the sign of velocity changes and its magnitude decreases with a passage of time. A similar situation arises when a ball is dropped on the hard floor from a height. It strikes the floor with some velocity and upon rebound, its velocity decreases by a factor. This continues till the velocity of the ball eventually becomes zero.
- (c) The given $a - t$ graph reveals that initially the body is moving with a certain uniform velocity. Its acceleration increases for a short interval of time, which again drops to zero. This indicates that the body again starts moving with the same constant velocity. A similar physical situation arises when a hammer moving with a uniform velocity strikes a nail.

Holt Physics Problem Solutions Chapter 2 Motion

Anthony S. Fauci



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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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