Physics

(www.tiwariacademy.com)
(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, $v_p = 30\ km/h = 8.33$ m/s

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

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

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

$= 150 + 8.33 = 158.33\ m/s$

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: $v_{bt} = v_b - v_t$

$= 158.33 - 53.33$

$= 10^5\ m/s$

Question 2.15:

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

(a)   (b)   (c)

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.

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Michael Hoelscher

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Table of Contents Mastering Physics Chapter 2 Solutions

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

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