

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.

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Sebastian Brünink



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Holt Physics Raymond A. Serway,2002 *Physics* Holt Rinehart & Winston,2001-02 **A Guidebook for Teaching Physics** William Yurkewicz,1985 *Langevin Equation, The: With Applications To Stochastic Problems In Physics, Chemistry And Electrical Engineering (2nd Edition)* William T Coffey,Yuri P Kalmykov,John T Waldron,2004-03-03 This volume is the second edition of the first ever elementary book on the Langevin equation method for the solution of problems involving the Brownian motion in a potential with emphasis on modern applications in the natural sciences electrical engineering and so on It has been substantially enlarged to cover in a succinct manner a number of new topics such as anomalous diffusion continuous time random walks stochastic resonance etc which are of major current interest in view of the large number of disparate physical systems exhibiting these phenomena The book has been written in such a way that all the material should be accessible to an advanced undergraduate or beginning graduate student It draws together in a coherent fashion a variety of results which have hitherto been available only in the form of research papers or scattered review articles

Physics: Its Structure and Evolution William A. Blanpied,1969 **Children's Books in Print** R R Bowker Publishing,Bowker,1999-12 **Holt Algebra 1 2003** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003 *Children's Books in Print, 2007* ,2006 *Physics* ,1977 **Project Physics: Motion in the heavens** Harvard Project Physics,1975 *Applied Mechanics Reviews* ,1970 *The Science Teacher* ,1971 Some issues are accompanied by a CD ROM on a selected topic

The Boundary Element Method for Engineers and Scientists John T. Katsikadelis,2016-10-10 *The Boundary Element Method for Engineers and Scientists Theory and Applications* is a detailed introduction to the principles and use of boundary element method BEM enabling this versatile and powerful computational tool to be employed for engineering analysis and design In this book Dr Katsikadelis presents the underlying principles and explains how the BEM equations are formed and numerically solved using only the mathematics and mechanics to which readers will have been exposed during undergraduate studies All concepts are illustrated with worked examples and problems helping to put theory into practice and to familiarize the reader with BEM programming through the use of code and programs listed in the book and also available in electronic form on the book s companion website Offers an accessible guide to BEM principles and numerical implementation with worked examples and detailed discussion of practical applications This second edition features three new chapters including coverage of the dual reciprocity method DRM and analog equation method AEM with their application to complicated problems including time dependent and non linear problems as well as problems described by fractional differential equations Companion website includes source code of all computer programs developed in the book for the solution of a broad range of real life engineering problems

Differential Equations; Theory and Use in Time and Motion Alice Braunlich Dickinson,1972 **Books in Print Supplement** ,2002 *Patterns in Physics* William Bolton,1974 *American Scientist* ,1942 **An Introduction to**

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