

Exam Questions - Projectile Motion

1. A boy throws a small ball at a vertical wall. The ball is thrown horizontally, from a point O, at a speed of 14.4 ms^{-1} and it hits the wall at a point which is 0.2 m below the level of O.

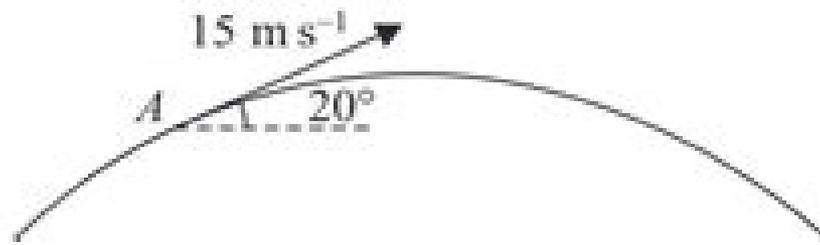
(a) Find the horizontal distance from O to the wall. [4 marks]

The boy now moves so that he is 6m from the wall. He throws the ball at an angle of 15° above the horizontal. The ball again hits the wall at a point which is 0.2 m below the level from which it was thrown.

(b) Find the speed at which the ball was thrown. [6 marks]

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2. At time $t = 0$, a particle is projected from a fixed point O on horizontal ground with speed $u \text{ ms}^{-1}$ at an angle θ° to the horizontal. The particle moves freely under gravity and passes through the point A when $t = 4 \text{ s}$. As it passes through A, the particle is moving upwards at 20° to the horizontal with speed 15 ms^{-1} , as shown in the diagram below.



Projectile Motion Questions And Solutions

Greg Jacobs, Joshua Schulman



Projectile Motion Questions And Solutions:

Physics—Problems, Solutions, and Computer Calculations Wan Muhamad Saridan Wan Hassan, 2023-11-06 Knowledge of and skill in physics are essential foundations for studies in science and engineering This book offers students an introduction to the basic concepts and principles of physics It covers various topics specifically related to physical mechanics the properties of matter and heat Each chapter begins with a summary of concepts principles definitions and formulae to be discussed as well as ending with problems and solutions that illustrate the specific topic Steps are detailed to help build reasoning and understanding There are 300 worked problems and 100 exercises in the book as well as 306 figures to help the reader visualize the processes being addressed Computer calculations and solutions are carried out using wxMaxima to give insight and help build computational skills The book is aimed at first year undergraduate students studying introductory physics and would also be useful for physics teachers in their instruction particularly the exercises at the end of each chapter

Excel HSC Physics Neville G. Warren, 2003

Mathematical Questions and Solutions, 1896

Mathematical

Questions and Solutions in Continuation of the Mathematical Columns of "the Educational Times", 1896

Physics For NEET/AIIMS Volume 1 Jain, M.C., Physics for NEET Volume I has been written in a simplistic style which helps the student to not only study by themselves but also accrue confidence of knowing concepts by solving numerous MCQs which are aptly placed based on the level of difficulty The book covers topics which are normally part of Class XI syllabus and are replete with Illustrations and previous years questions Test papers also add to the practice quotient of the book and with solutions to almost all questions the book provides a complete practice based atmosphere for the student to revel in

Study Guide and Student Solutions Manual Douglas Brandt, 2000 Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the reader into the physics The new edition features an unrivaled suite of media and on line resources that enhance the understanding of physics Many new topics have been incorporated such as the Otto cycle lens combinations three phase alternating current and many more New developments and discoveries in physics have been added including the Hubble space telescope age and inflation of the universe and distant planets Modern physics topics are often discussed within the framework of classical physics where appropriate For scientists and engineers who are interested in learning physics **Mathematical Questions and Solutions, from "The Educational Times", with Many Papers and Solutions in Addition to Those Published in "The Educational Times" ...**, 1886 **Student Study Guide & Selected Solutions Manual** Frank L. H Wolfs, 2008

Mathematical Questions and Solutions, from the "Educational Times" W. J. C. Miller, 1896 **5 Steps to a 5 AP Physics B&C, 2010-2011 Edition** Greg Jacobs, Joshua Schulman, 2010-01-01 A Perfect Plan for the Perfect Score We want you to succeed on your AP exam That s why we ve created this 5 step plan to help you study more effectively use your preparation time wisely and get your best score This easy to follow guide offers you a complete review of your AP course

strategies to give you the edge on test day and plenty of practice with AP style test questions You'll sharpen your subject knowledge strengthen your thinking skills and build your test taking confidence with Full length practice exams modeled on the real test All the terms and concepts you need to know to get your best score Your choice of three customized study schedules so you can pick the one that meets your needs The 5 Step Plan helps you get the most out of your study time Step 1 Set Up Your Study Program Step 2 Determine Your Readiness Step 3 Develop the Strategies Step 4 Review the Knowledge Step 5 Build Your Confidence Topics include A Bit About Vectors Free Body Diagrams and Equilibrium Kinematics Newton's Second Law $F = ma$ Momentum Energy Conservation Gravitation and Circular Motion Rotational Motion for Physics C Students Only Simple Harmonic Motion Thermodynamics for Physics B Students Only Fluid Mechanics for Physics B Students Only Electrostatics Circuits Magnetism Waves Optics for Physics B Students Only and Atomic and Nuclear Physics for Physics B Students Only Also includes Physics B practice test Physics C mechanics practice test and Physics C electricity and magnetism practice test AP Advanced Placement Program and College Board are registered trademarks of the College Entrance Examination Board which was not involved in the production of and does not endorse this product

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Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers John R. Gordon, Raymond A. Serway, 2004
 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions

Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers, by Serway Raymond A. Serway, Steven Van Wyk, 1996

Mathematical Questions and Solutions, from the "Educational Times.", 1875

Student Study Guide & Selected Solutions Manual David D. Reid, 2007

Mathematical Questions with Their Solutions, from the "Educational Times"... W. J. C. Miller, D. Biddle, 1886

700 Solved Problems In Vector Mechanics for Engineers: Dynamics Joseph F. Shelley, 1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill

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