

- 1 a Define work done by a force.

.....

..... (1 mark)

- b Figure 1a shows a ball of mass 200 g on a smooth curved ramp. The ramp rests on a rough horizontal floor. The ball is at rest at a height of 0.65 m above the floor.

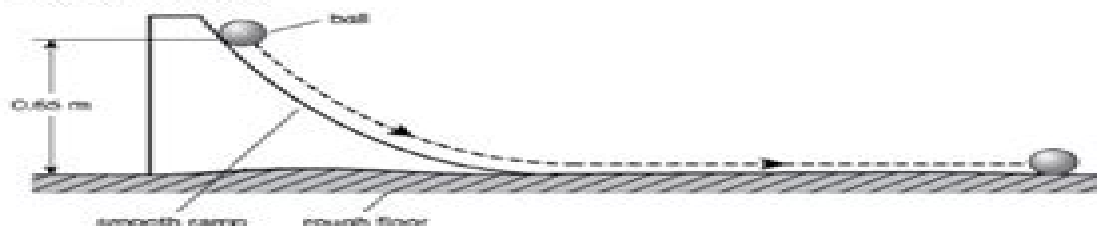


Figure 1a

The ball is released and rolls down the ramp onto the floor before coming to a halt.

- i Determine the horizontal distance travelled along the floor, assuming that the average frictional force acting between the ball and the floor is 0.72 N.

distance = m (2 marks)

- ii Describe the energy changes that take place during the motion of the ball.

.....

.....

..... (2 marks)

- c A trolley of mass 80 kg is being pulled by along a horizontal path. Figure 1b shows the force, T , exerted on the trolley and the frictional force, F , acting between the trolley and the path.



Figure 1b

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Dmitry Budker, Alexander O. Sushkov



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Physics on Your Feet Dmitry Budker,Alexander O. Sushkov,2021 Physics on Your Feet 2nd Edition is a significantly expanded collection of physics problems covering the broad range of topics in classical and modern physics that were or could have been asked at oral PhD exams at University of California at Berkeley The questions are easy to formulate but some of them can only be answered using an outside of the box approach Detailed solutions are provided from which the reader is guaranteed to learn a lot about the physicists way of thinking The book is also packed full of cartoons and dry humor to help take the edge off the stress and anxiety surrounding exams This is a helpful guide for students preparing for their exams as well as a resource for university lecturers looking for good instructive problems No exams are necessary to enjoy the book *Physics on Your Feet: Berkeley Graduate Exam Questions* Dmitry Budker,Alexander O. Sushkov,2015 Physics on Your Feet gives a collection of physics problems covering the broad range of topics in classical and modern physics that were or could have been asked at oral PhD exams at Berkeley The questions are easy to formulate but some of them can only be answered using an out of the box approach Detailed solutions are provided from which the reader is guaranteed to learn a lot about the physicists way of thinking The book is also packed full of cartoons and dry humour to help take the edge off the stress and anxiety surrounding exams This is a helpful guide to students preparing for their exams as well as to University lecturers looking for good instructive problems No exams are necessary to enjoy the book **Physics Qualifying Examination** Horacio A. Farach,Charles P. Poole, Jr.,John L. Safko, Sr.,2010-03-08 Designed for use in tandem with the Handbook of Physics this volume is nonetheless self contained and can be used on its own The chapters are based on lectures delivered annually by Professor Poole in a course to prepare students for their PhD qualifying examination in the physics department at the University of South Carolina The book contains 120 selected problems and answers that appeared in these examinations and each one refers to the chapter in the Handbook that discusses the background for it Professor Farach has kept a record of all the qualifying examinations in the department since 1981 It covers all relevant physics subjects which are otherwise scattered in different preparation publications or university scripts including Atomic and General Physics Condensed Matter Physics Classical Mechanics Electricity and Magnetism Elementary Particle Physics Nuclear Physics Optics and Light Quantum Mechanics Relativity and Astrophysics Thermo and Statistical Mechanics An excellent self study approach to prepare physics PhD candidates for their qualifying examinations *Get Smart* Richard S. Horsfield,Lloyd Williams,1998 *Ace Your Midterms and Finals: Introduction to Physics* Alan Axelrod,1999 Includes real college tests **Let's Review Physics-The Physical Setting** Miriam Lazar,2002-02-28 Like all titles in Barron s Let s Review Series this updated book reviews subject material offers practice questions and makes an ideal companion to high school textbooks Its special focus is on preparation for the physics exam that is given throughout New York State under the direction of the Board of Regents Topics reviewed include motion forces and Newton s laws vector quantities and

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