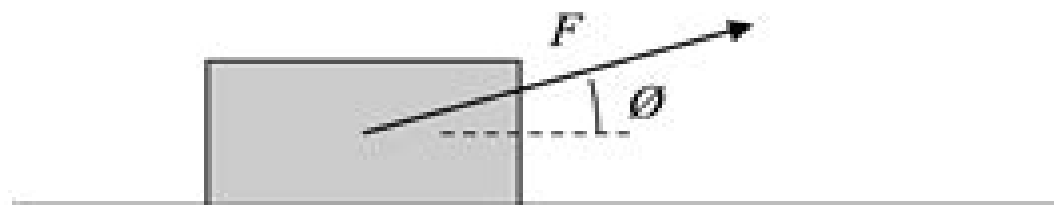


Question:



A force F is exerted at an angle θ on a box of mass m as it is dragged across the floor at constant velocity. If the box travels a distance x , then the work done by the force F on the box is

- a. Fx
- b. $Fx \cos \theta$
- c. $mgx \cos \theta$
- d. $Fx \sin \theta$
- e. $Fx \tan \theta$

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Answer:

The correct answer is *b*. Work done by an object is calculated according to the Work formula $W = F \cdot x$, or $W = Fx \cos \theta$. There are a couple of distractors in this problem: the mass m of the box is not needed in the solution, and the box's constant velocity isn't required.

The fact that the box is traveling at constant velocity implies that there is friction impeding its motion, but evidently the energy “lost” to friction is equal to the work being done by the force F , so that the net Work done on the box by F and $F_{\text{friction}} = 0$. None of this information is necessary, though, to solve the problem.

Problems In Physics

**Péter Gnädig, Gyula Honyek, Kenneth
Franklin Riley**



Problems In Physics:

Princeton Problems in Physics, with Solutions Nathan Newbury, 1991-02-21 Aimed at helping the physics student to develop a solid grasp of basic graduate level material this book presents worked solutions to a wide range of informative problems These problems have been culled from the preliminary and general examinations created by the physics department at Princeton University for its graduate program The authors all students who have successfully completed the examinations selected these problems on the basis of usefulness interest and originality and have provided highly detailed solutions to each one Their book will be a valuable resource not only to other students but to college physics teachers as well The first four chapters pose problems in the areas of mechanics electricity and magnetism quantum mechanics and thermodynamics and statistical mechanics thereby serving as a review of material typically covered in undergraduate courses Later chapters deal with material new to most first year graduate students challenging them on such topics as condensed matter relativity and astrophysics nuclear physics elementary particles and atomic and general physics

The Problems of Physics Anthony J. Leggett, 2006 This book aims to give the non specialist reader a general overview of what physicists think they do and do not know in some representative frontier areas of contemporary physics It focuses on the fundamental problems at the heart of the subject and emphasizes the provisional nature of our present understanding of things

Problems in Physics Abhay Kumar Singh, 2007 In The Study Of Physics At The 2 Stage And The 1st Year Engineering Course Problem Solving Poses A Major Challenge This Book Aims At Assisting The Students Approach A Physics Problem Elaborating On What Signifies That A Solution Has Been Found And Much More Tougher Problems Have Been Solved Laying Great Stress On Approach And Method While Simultaneously Offering The Number Of Ways A Given Problem Can Be Solved Applying Different Approaches The Fourth Edition Of This Widely Used Text Presents 300 New Problems With Answers Including 50 Fully Solved Examples

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