

Paper Homework No. 04B (Spring 2018)

PHYS 203A: College Physics

Due date: Friday, 2018 Mar 2, 2.00pm, in class

(Name)

(Signature)

Instructions

1. Your submission should include only this page. Other forms of submissions will not be accepted. Please print this page, and write your solution on the back side.
2. Show your thought process in detail and organize it clearly.
3. Make sure your answer has the correct units and the right number of significant digits.

Question

A box rests on a rough board 10.0 meters long. When one end of the board is slowly raised to a height of 6.0 meters above the other end, the box begins to slide.

1. What is the coefficient of static friction?
2. Once you have calculated the coefficient of static friction, do you have sufficient information to calculate the acceleration of the box? If not list the additional information you need, else determine the acceleration.