

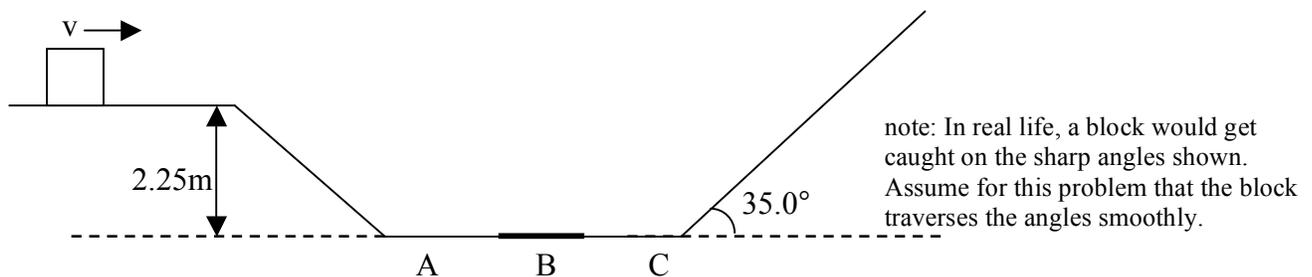
HW Set #12 due Tuesday 11/20 before the test!

From Chapter 9:

p286 #1 problem 39

p287 #2 problem 59 (What type of collision is this? What is conserved?)

#3 A block of mass 7.50 kg is sliding to the right along a frictionless surface at $v = 1.50$ m/s as shown below. A rough patch of length 2.50 m is at point B. This patch exerts a constant force of magnitude 3.00 N on the block. The block slides back and forth between the two ramps.



- How many times will the block cross the rough patch?
- Where will the block finally stop? (Be specific!)
- Which ramp (left or right) does the block go up last? Explain your answer.
- On the last trip up the ramp from part C, how high up does the block go?