

PHY138 - Mechanics - Written Homework #6

This assignment is due by 5 PM on Monday, October 25 in the Drop Box for your tutorial group.

What I Meant to Assign

As announced, I got the wrong chapter number for the textbook problems in *Written Homework #5*. What I meant to assign was:

Chapter 7: Problems 5, 29

You may wish to look these over, although they are not part of this assignment.

Supplementary Problem

In *Written Homework #5* you used a little Flash animation of air track collisions to verify that kinetic energy is conserved in elastic collisions and is not conserved in inelastic ones. The animation is available at:

<http://faraday.physics.utoronto.ca/PVB/Harrison/Flash/ClassMechanics/AirTrack/AirTrack.html>

Use the animation to verify that momentum is conserved for all collisions.

From the Textbook

Chapter 8: Problems 6, 28

Chapter 10: Question 15. Problems 6, 9

Additional Problems

We will not have another Written Homework assignment for this unit. If we were going to have one covering the material of the classes of October 25 and 27, I would have assigned the following problems from the textbook:

Chapter 10: Problems 16, 17, 39, 47