

PHY131H1F “Introduction to Physics I”

Suggested End of Chapter Items – Test 1

All of these suggested end-of-chapter items are from “Essential University Physics” Volume 1 (3rd Edition) by Richard Wolfson, ©2016 by Pearson Education, Inc.

Many of the solutions to these suggested items can be found by trying the MasteringPhysics Practice assignment:

- Chapter 1-4 Practice (Not For Marks) due Oct. 2 – You don’t have to actually look at it by Oct.2, but you probably should.

Chapter 1

For Thought and Discussion: 2, 6, 7, 8

Exercises: 12, 14, 17, 22, 23, 26, 28, 30, 33, 34

Problems: 42, 45, 47, 48, 52, 55, 57

Chapter 2

For Thought and Discussion: 1, 2, 5, 6, 9, 10, 11

Exercises: 12, 14, 20, 21, 25, 28, 36, 37, 38, 40, 41

Problems: 46, 51, 52, 59, 60, 63*, 69, 79, 81, 86

Passage Problems (all): 92-96

***Note** for Problem 2.63: The wording is vague. Here is what the question should say: “After 35 min of running, at the 9-km point in a 10-km race, you find yourself 100 m behind the leader. What should your acceleration be if you’re to catch up by the finish line? Assume that the leader maintains a constant speed for the entire race. Also assume that you were running at a constant speed for the first 9 km.”

Chapter 3

For Thought and Discussion: 1, 2, 7

Exercises: 13, 14, 16, 19, 23, 24, 28, 29, 33, 35, 39, 40, 42

Problems: 45, 51, 54, 57, 59, 61, 62, 77, 82, 84

Chapter 4

For Thought and Discussion: 1, 2, 12

Exercises: 14, 18, 20, 24, 28, 29, 31, 34, 35, 36, 38, 39

Problems: 41, 42, 45, 47, 49, 50, 54, 55, 63, 64, 68, 73