

Homework Problem Set 3 – DUE THURsday, 9/22

Problem 1

Hewitt 3-36, p. 53

Problem 2

Hewitt 3-58, p. 55

Problem 3

Hewitt 3-68, p. 55

Problem 4

Hewitt 3-80, p. 56

Problem 5

Hewitt 4-42, p. 69

Problem 6

Hewitt 4-76, p. 71

Problem 7

You observe a car driving around a corner at constant speed. Is there a net force acting on that car?

Problem 8

A parachutist with a total mass (including parachute) of 100 kg is falling towards the ground. Right after opening, the air resistance of the parachute produces a force of 1400 N (upwards). What is her net acceleration? In which direction is she being accelerated? (CAREFUL!)