

Physics 101: How the “world” works Fall 2008

Homework 1

Due in your studio, Tues. Sept. 16, Wed. Sept. 17, or Thurs. Sept. 18

Chapter 3 Exercises

(1) 9

(2) 14

(3) 24

Chapter 3 Problems

(4) 3

(5) 4

(6) 8

(7) 9

Extra Credit: Find the point of no return for an airport runway of 1.50 miles in length if a jet plane can accelerate at 10.0 ft/s^2 and decelerate at 7.00 ft/s^2 . The point of no return occurs when the pilot can no longer abort the takeoff without running out of runway. What length of time is available from the start of the motion in which to decide on a course of action?