Homework 2

Due at the beginning of class Jan. 27

From T&M:

Appendix C: Exercises C-1, C-2, C-3

Chapter 2: 2, 23, 39, 43, 47, 53, 54

- 11. Repeat Example 2.5 from T&M using a drag (retarding) force whose magnitude is kmv^2 . In particular:
 - (a) Find v(t). Is there a terminal velocity? What is it?
 - (b) Plot your v(t) similar to Fig. 2.6 (with the same three initial conditions) and discuss the plot physically.
 - (c) Find and plot x(t) for the same three initial conditions as in (b). Discuss the plot physically.