**Phys410/F18 Homework Problems**

From *Classical Mechanics, by Taylor*

Homework to be turned in in hardcopy on due date, in class.

**Problem Set 1 due 09/08/16**

Ch 1: 6, 9, 19, 23 (show first that **b.c** = **0**, for a solution to exist. Then, note that you could construct **v** from **b, c,** and **b**x**c**).

Ch 1: 28, 31, 36, 39

Ch 2: 5 (solve explicitly for v(t), using the method Taylor uses)

Ch 2: repeat 5, using separation of variables. Note that ln(x) is defined only for x > 0. Use Integral[dx/x] = ln(x), and exp[ln(x)] = x.

Ch 2: 8 (use separation of variables, as done in class)

Ch 2: 27 (look up any integrals)