

# Physics A410: Thermal Physics

## Problem Set 7

Assigned 2003 March 7  
Due 2003 March 14

**Show your work on all problems!** Be sure to give credit to any collaborators, or outside sources used in solving the problems.

**1 Schroeder 2.31**

**2 Schroeder 2.34**

**3 Schroeder 2.37**

**4 Schroeder 2.39**

Don't just quote the values given in the text for  $V$  and  $U$ ; calculate them from the ideal gas law and the equipartition theorem.