

Physics 450: Problem Set #8

Department of Physics and Astronomy
Sonoma State University

Due Wednesday, November 3, 2010, 12:00 pm (in class)

- All problems are from the text: Daniel V. Schroeder, An Introduction to Thermal Physics, Addison Wesley Longman, 1999;
 - Please read 4.1 and 4.2;
1. Problem 4.1;
 2. Problem 4.4(a);
 3. Problem 4.9;
 4. Problem 4.11;
 5. Problem 4.18; Page 131 explains how an Otto cycle works.
Note: For an adiabatic process, $PV^\gamma = \text{constant}$.