Physics 450: Problem Set #8

Department of Physics and Astronomy
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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, \( PV^\gamma = \text{constant} \).