Chemistry 520 - Problem Set 5
Due AT THE START OF CLASS Friday February 14, 1997

1. TSW* Chapter 3, problem 17, page 119. [The answer to part c is 60° C.]

2. TSW Chapter 3, problem 19, page 120. [\(7/2 R\) is the molar heat capacity of air. Isoentropic means \(\Delta S = 0\). The answer to part c is \(4.63 \times 10^8 \text{ s}\)]

3. TSW Chapter 3, problem 26, page 122. [The answer is \(-66.6^\circ \text{C}\)]

4. TSW Chapter 4, problem 7, pages 186-187. [The answer to part b is \(1.22 \times 10^{12}\)]

Special information on the week of February 10:

- Dr. McCoy will be out of town Monday Feb.10 - Wednesday Feb. 12 and Dr. McBane will be lecturing on Monday and Wednesday. For this reason, the class has an extension on their problem set up to the beginning of class on Friday Feb. 14.

- Due to Dr. McCoy’s absence, office hours have been rearranged during the week of Feb. 10, as follows:
  - Wednesday February 12, 1:30-2:30 P.M. Ellen (2120 NW)
  - Thursday Feb. 13, 2-3 P.M. Dr. McCoy (2108 NW)
  - Friday Feb. 14, 10-11 A.M. Dr. McCoy (2108 NW)

  Recitation sessions will be held at their regular times.

- Problem Set 6 will be due at the regular time (Wed. Feb. 19 at 5 P.M.)

- On Thursday Feb. 13, Dr. Peter Armentrout, a physical chemist from the University of Utah, will be presenting the Mack Memorial Lecture at 3:30 P.M. in 1008. This lecture should be at a level that you should understand most of the ideas. He will be giving a second seminar on Friday Feb. 14 at 3:30 P.M.. Details are posted around the department.

* Tinoco, Sauer and Wang, 3rd edition.