

General Chemistry I
Problem Set 2
Due Friday, September 24, 2004 (at 5 p.m.)

1. Problem 8.10 (6 points)
2. Problem 8.24 (6 points). Note that you are not allowed here to represent core electrons by the corresponding noble gas.
3. Problem 8.30 (6 points). Here, you are allowed to represent core electrons by the corresponding noble gas. You should also draw a vertical orbital diagram that correctly shows the relative energies of the valence subshells.
4. Problem 8.44 (8 points)
5. Problem 8.54 (8 points). Briefly explain your reasoning for each part.
6. Problem 8.56 (8 points). Briefly explain your reasoning for each part.
7. Problem 8.83 (8 points)
8. Problem 8.87 (6 points). As Silberberg requests, please explain your reasoning for each of the three ranking.

Announcement

Starting next week, Sunday, September 19, drop-in chemistry tutoring will be available in the chemistry computer room at the following times:

Sundays: 2-5pm and 7-10pm

Monday - Thursday: 7-10pm

Our tutors are all able to help students with questions on Chem 111 through 212, and most have had other chemistry courses as well.

The chemistry computer lab will be open on the following schedule:

Sundays: 2-5pm and 7-10pm

Monday-Thursday: 9am-5pm and 7-10pm

Fridays: 9am-5pm

Saturdays: Closed