Chemistry 1B-AL Homework #6 (#46-#49, S13)

Required (submit via WebAssign)

- 46. Write the ground state electron configurations for the following molecules and molecular ions. Indicate the bond order and whether the species will be diamagnetic or paramagnetic in the ground state. Be sure to read instructions for entering configurations into WebAssign.
 - a. H_2
 - $b. B_2$
 - c. N_2
 - d. N_2 +
 - e. N_2^-
- 47. Zumdahl #14.42 (a,b,c; and same question for the molecular ion N₂⁻)
- 48. Write the configurations for F₂+, F₂, and F₂-. Predict the relative bond lengths of the F–F bonds in these three species. How many unpaired electrons are there in each of these species?
- 49. Zumdahl #14.49

Section

\$13. Zumdahl #14.3