Chem. 1410, HW#9. Assigned 11/24; due 12/2

1. There are at least 5 isomers that one could envision for H4. Sketch these structures and report the Huckel total energies for each.

- 2. What are the atomic coefficients of the pi and pi\* Huckel orbitals of hexatriene?
- 3. Explain using molecular orbitals why CO2 is linear but CO2 anion is bent.
- 4. Show how you can use symmetry to simplify calculation of the Huckel orbital energies for fulvene.