Chem 442: Homework for lecture L34

(only turn in **BOLD** assignment first lecture next week of classes; do all assignments)

1. Worked problem 8.4

2. Problem 8.3 in the book.

3. Problem 8.4 in the book.

4. **Turn in:** Problem 8.7 in the book

5. Write down the full wavefunction (electron configuration) in the VB basis for an H_2O molecule where an electron is excited form the $2\sigma \rightarrow 3\sigma^*$ orbital. Don't forget antisymmetrization.