

CHE 310 – 002 & 003
Lecture Homework #25

Due Monday, April 1, 2019 (no joke)

1. **Correct your exam critically.** Carefully go over the solutions and add correct answers. **Include explanations for all corrected answers.**

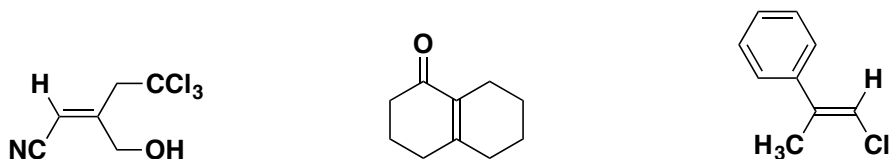
Some guidelines for question corrections.

- 2) Make it clear how one comes to the correct answer. Either explain in words or redraw molecules to make the answers clear.
- 3) Explain why the answers are what they are. If you answered that hydrogens were equivalent, when in fact they were not, explain why they are non-equivalent.
- 5) Assign priorities to make it clear why the key is correct.
- 6b) If you missed any points on this problem, assign configurations to both molecules.
- 6c) If you missed any points on this problem, draw all of the possible monochlorinated products for each molecule and name them.
- 6e) If you missed any points on this problem, draw the boat and chair conformations of cyclohexane and define torsional strain.
- 8) Replace the two hydrogens with Cl (as a dummy atom) and name the two molecules.

You can write directly on the exam, in pen, as long as it is in a different color than what was used originally. Feel free work problems on additional pages, but the exam must be turned in. The key is posted outside my office and **may only be hand-copied**. The solutions must also stay in the faculty office suite. Note: I will not return this for a second round like last time. If you are unsure if you have analyzed critically enough, please contact me.

Due: Friday, March 29, 2019, 10:00 am.

1. Assign the absolute configuration to the alkenes below.



2. Based on the energies in Table 7.2 and the trend above it rank the alkenes below in order of decreasing stability

