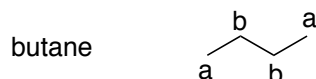


CHE 310 – 002 & 003
Lecture Homework #15

Due: Monday, Feb 25, 2019, 10:00 am.

1. This problem is based on Problem 11.6 in the text. For the compounds below label each carbon using a,b,c... to distinguish between those which are equivalent and those which are non-equivalent. The number of non-equivalent carbons is equal to the number of resonance lines one would expect to see in the ^{13}C spectrum

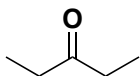
For example:



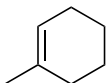
Therefore, butane would show 2 lines (peaks) in the ^{13}C spectrum.

a) methylcyclopentane

b)



c)



2. Coming tomorrow and **due on Wednesday**: I will be returning your exams and a number were not critically corrected. I have made additional comments in green pen. If you receive the exam back and it says OK, you are all set. If it has resubmit on it, you will need to make the corrections again. This time you will have to rewrite the question(s) I have commented on separate paper, including the correct answer how one gets the correct answer (show your work). For example, if two compounds are non-isomeric, then I would expect one to say that they have different formulas and show me those formulas.