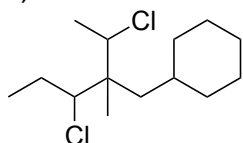


Name: **Jeff Chan**  
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**Chemistry 236 Organic Chemistry I – Fall 2023  
Practice Midterm #1**

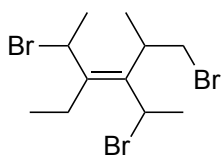
1. What is the IUPAC name for the following compounds?

a)



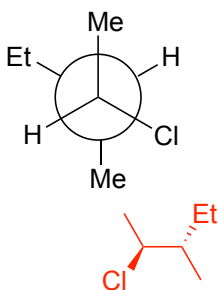
(3-chloro-2-(1-chloroethyl)-2-methylpentyl)cyclohexane

b)



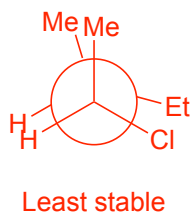
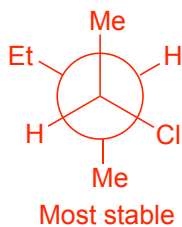
(E)-1,5-dibromo-3-(1-bromoethyl)-4-ethyl-2-methylhex-3-ene

c)

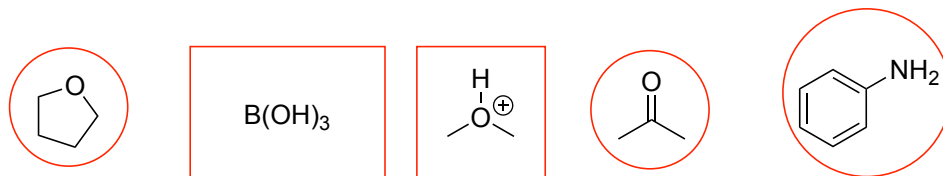


2-chloro-3-methylpentane

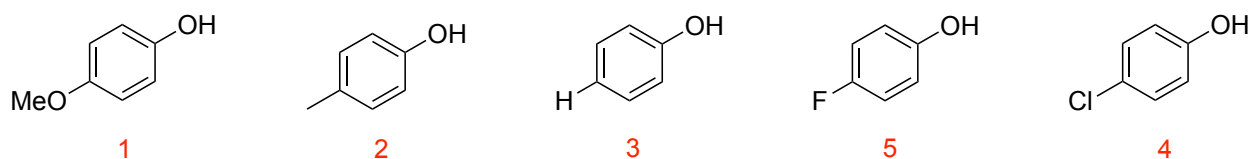
2. For the Newman projection shown in question 1c, draw the most **and** least stable conformers



3. For each of the following chemicals, identify all Lewis Acids with a box and all Lewis Bases with a circle.

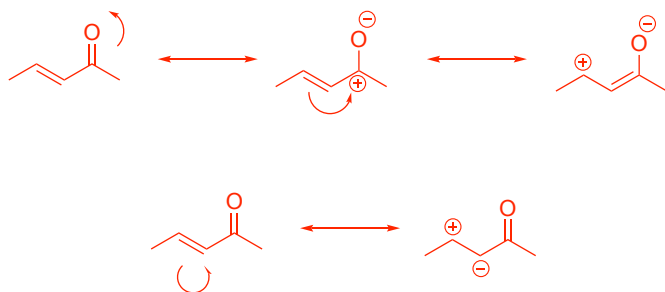


4. Rank the following compounds in order of increasing acidity. 5 = most acidic, 1 = least acidic.

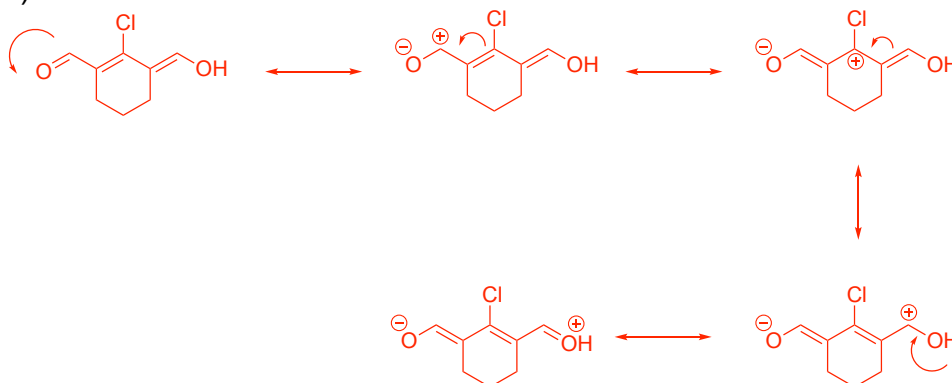


5. Draw all reasonable resonance structures for the following compounds.

a)

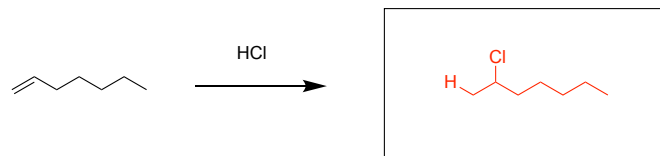


b)

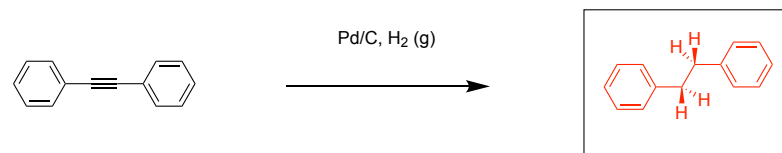


6) Predict the major product for the following reactions.

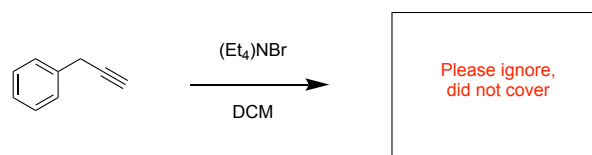
a)



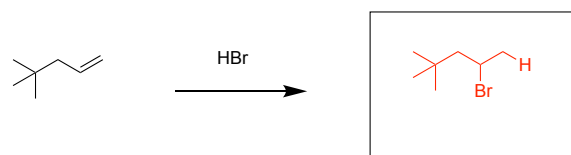
b)



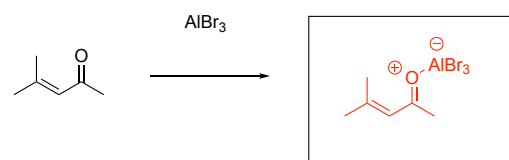
c)



d)

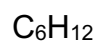


e)

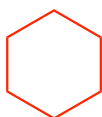


7) Calculate the degree of unsaturation and draw two possible structures for each molecular formula.

a)



DoU = 1



b)



DoU = 4

