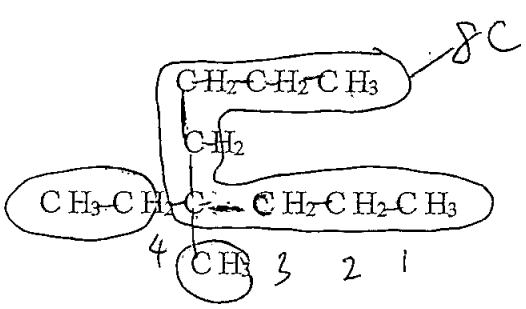
Organic Chemistry I (SC 320) Fall 17 Dr. Hahn 12pm MWF Quiz II 9/15 F Exam # _____

Sign Name Key Print Name _____

Please show work on all questions for partial credit even on questions which do not specify. (25 total pts)

1. Given the following molecule, give the IUPAC name. (4 pts)



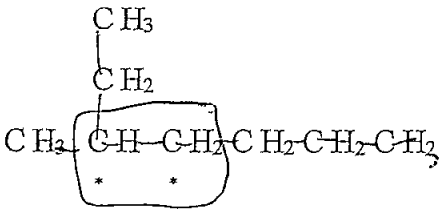
root = octane

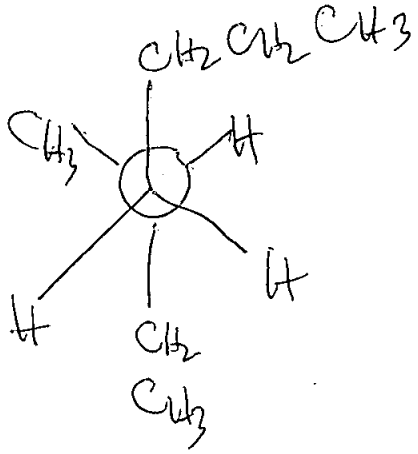
substituent = (4) methyl + (4) ethyl

(e) before (m)

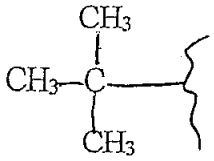
4-ethyl-4-methyloctane

2. Given the following molecule draw the most stable Newman projection formula for the molecule shown. Between the 2 carbons with the *. Please note the location of the eye. (7 pts)

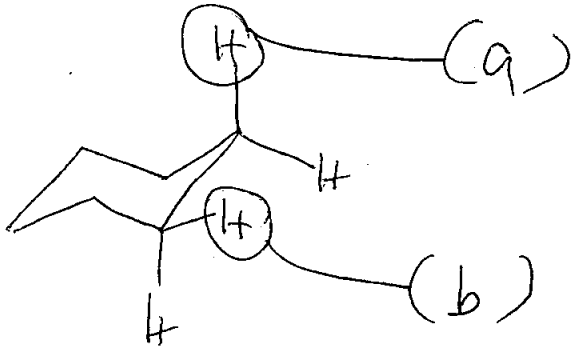




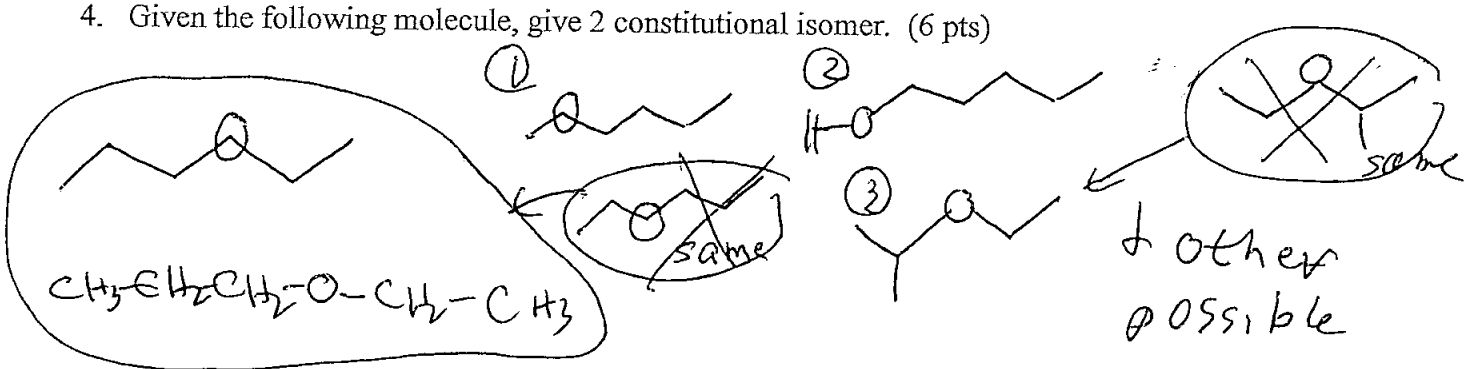
3. a. The following is [(isopropyl) or (t-butyl)] (circle one) (4 pts)



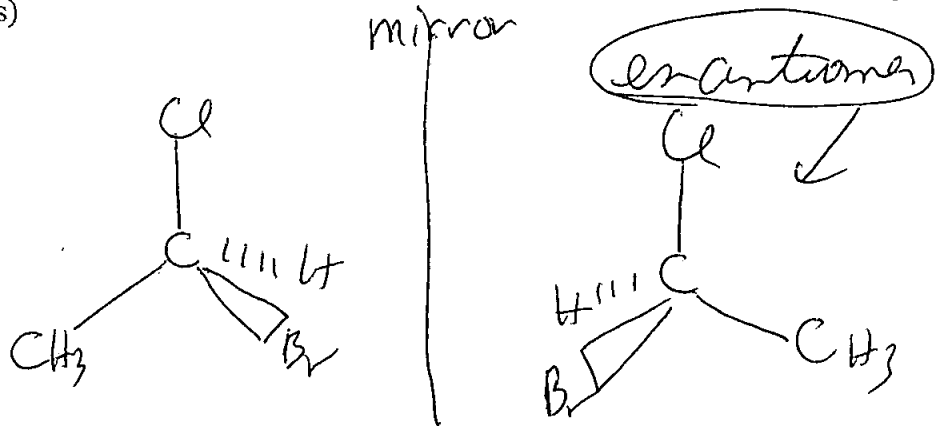
b. Given the following chair form of cyclohexane: label (a) axial hydrogen (b) equatorial hydrogen (4 pts)



4. Given the following molecule, give 2 constitutional isomer. (6 pts)



5. Extra Credit: Given the following 3 D structure of a chiral carbon, draw the mirror image enantiomer. (4 pts)



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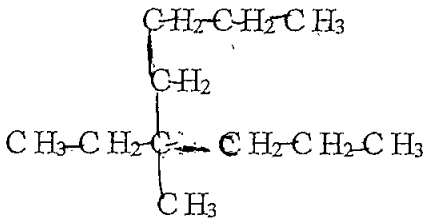

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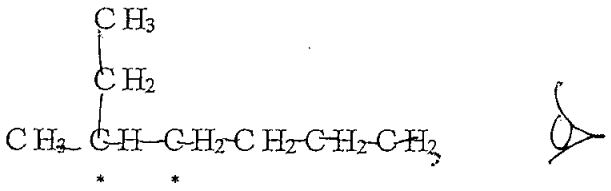

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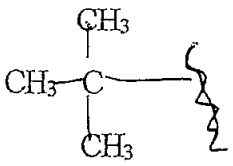

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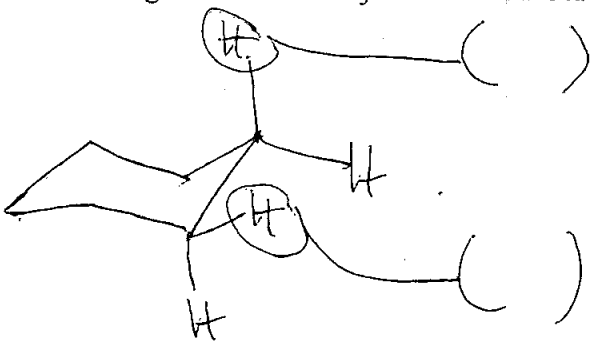

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