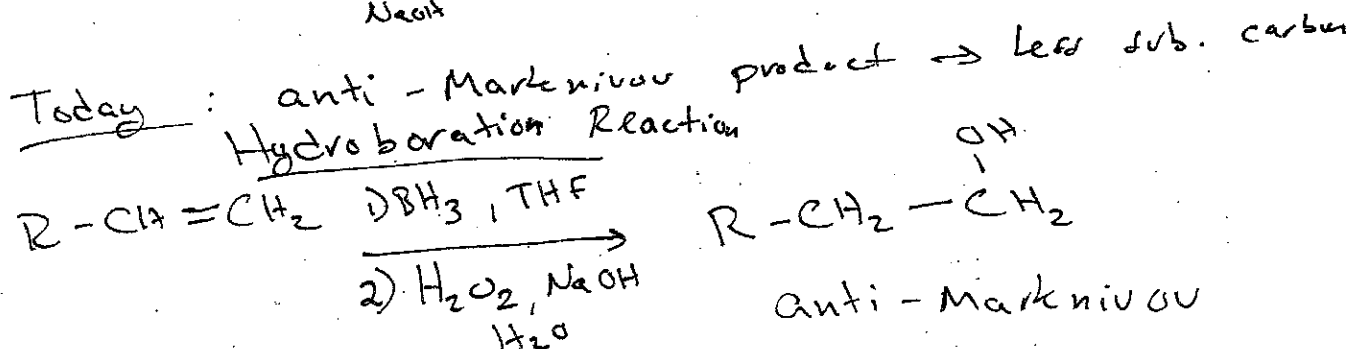
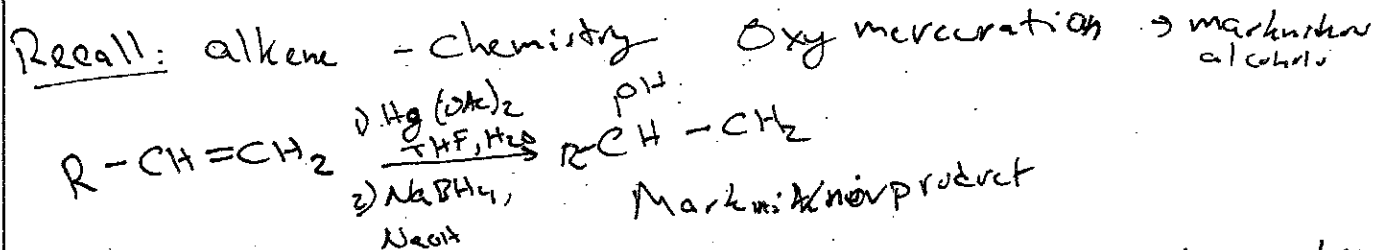


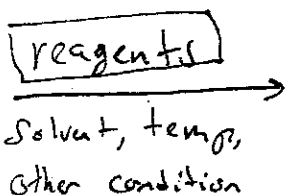
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Problems for Ch. 6

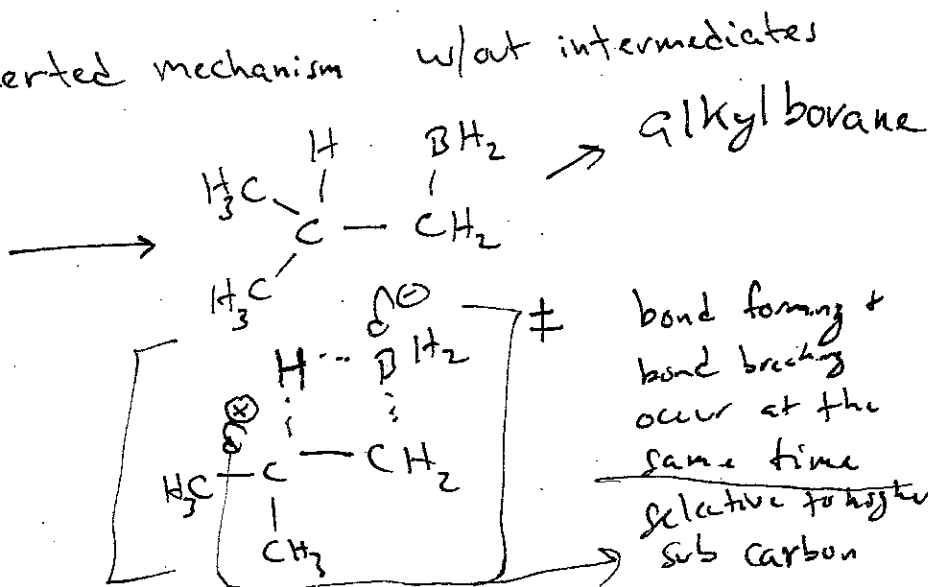
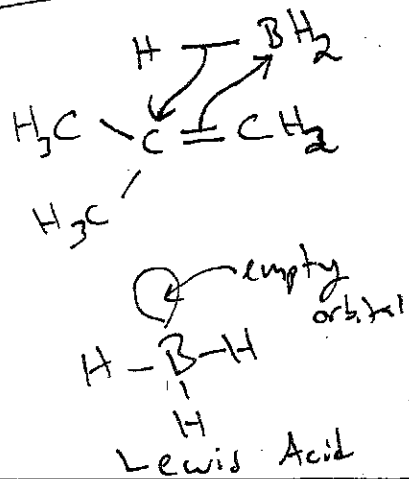
1, 3-7, 8(b), 9, 12-25, 27-42, 45-54



For arrows (reaction)

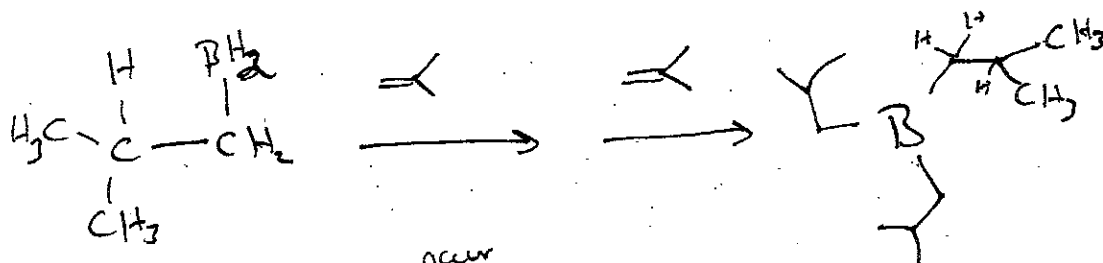


Mechanism → Concerted mechanism w/out intermediates



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Why does the rxn occur on the less sub carbon?

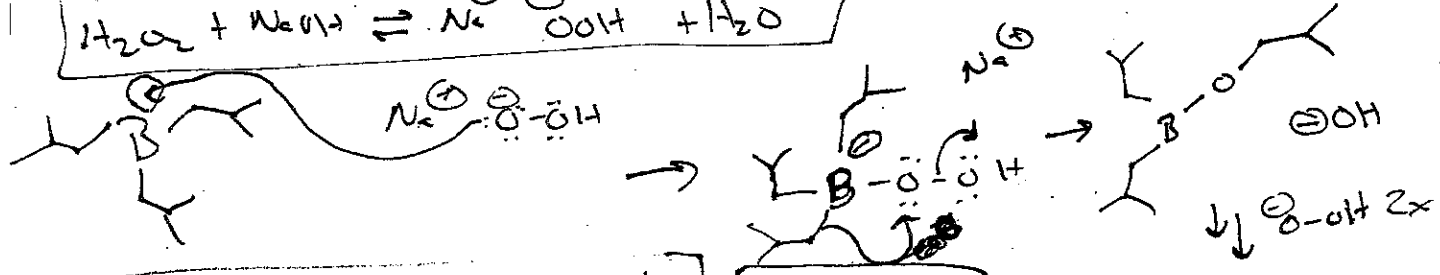
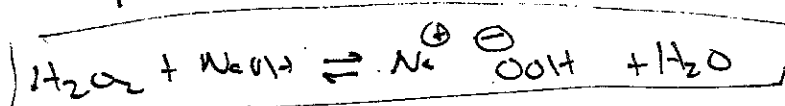
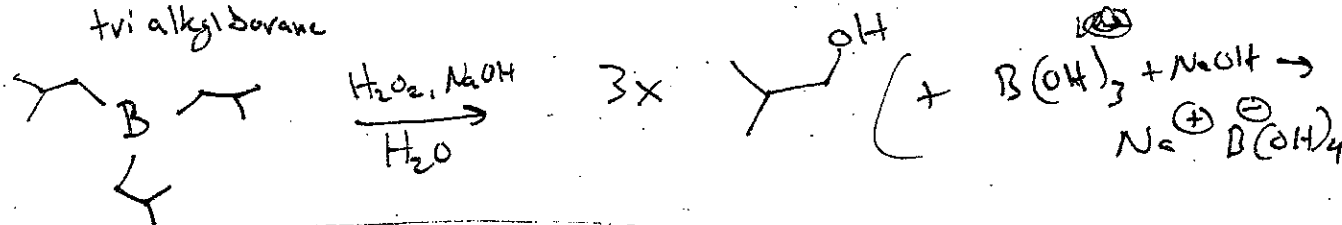
a) partial charges @ T.S.

b) sterics - Boron will choose the less crowded carbon

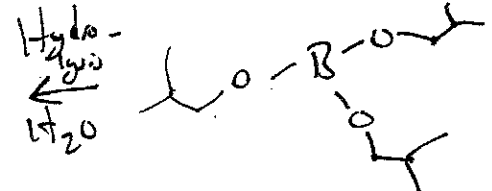
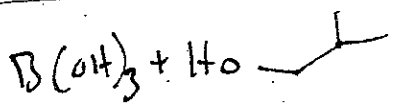
(H is smaller, BH<sub>2</sub> is bigger → B-C bond @ less substituted carbon)

Step 2 Oxidation to the alcohol

tri alkyl borane



Bond between 2 electronegative atoms is weak

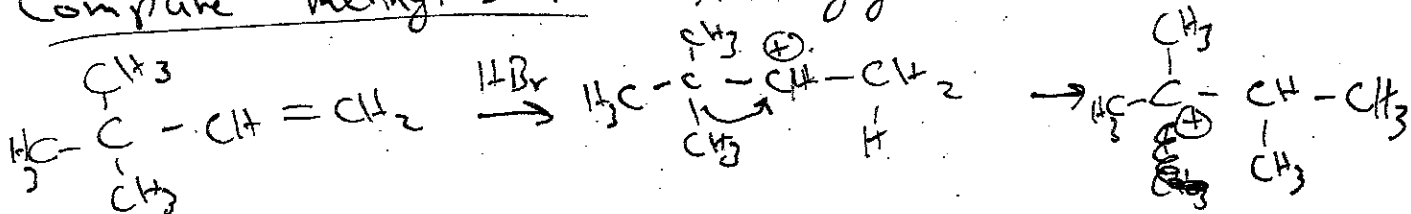


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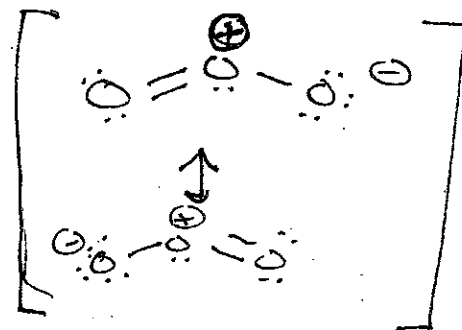
Compare methyl shift

Analogy

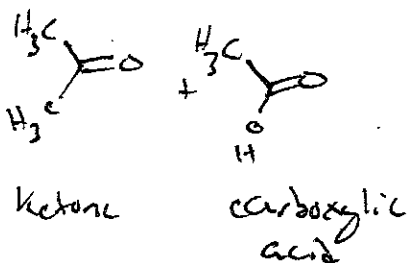
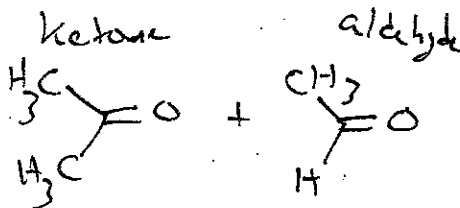
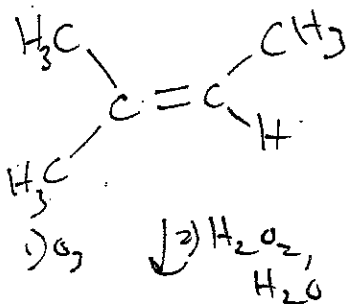
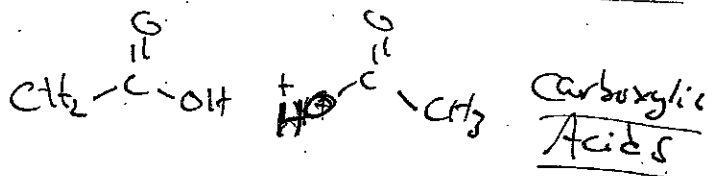
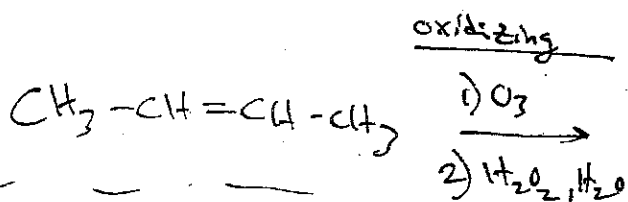
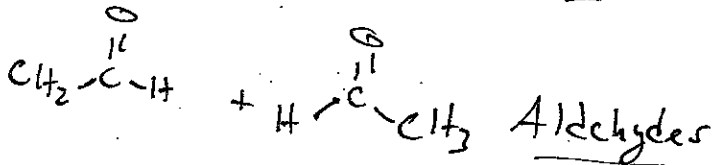
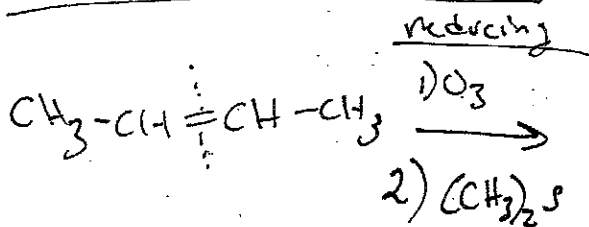


Ozonolysis

Ozone:  $\text{O}_3$



Two reaction variants:



Course CHEM 343

Lecturer Hackenberg

Day Fri

Date 10/11/13

Notes Taken By Guenneth

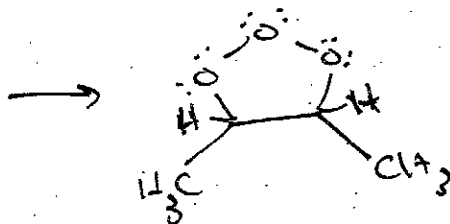
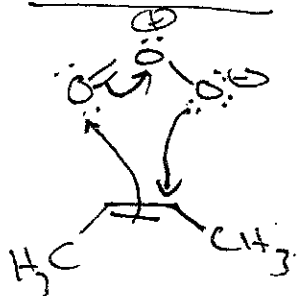
Total # of Pages 4

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Mechanism

Cycloaddition, concerted mechanism



"~~secondary~~ ozonide  
(primary ozonide)