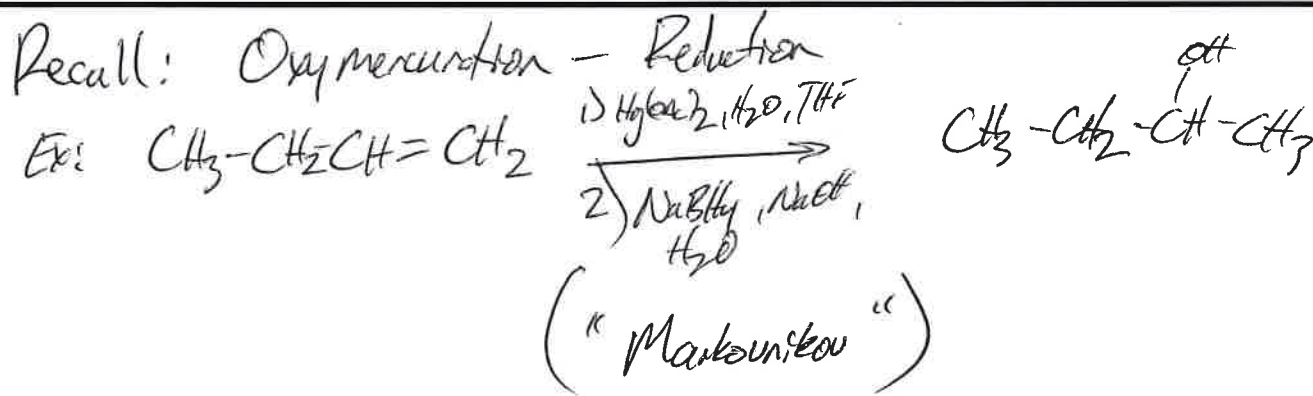
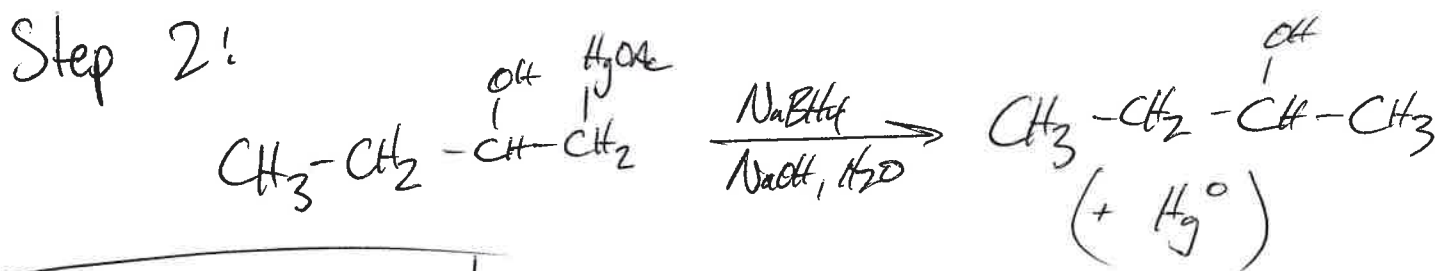


Course Chem 343 Lecturer Gellman  
 Day Friday Date 10/09/15  
 Notes Taken By Nolan Blythe Total # of Pages 5

Submit a *Single-sided Copy* to the Undergraduate Office  
**NO NOT STAPLE - ONLY WRITE NOTES INSIDE THE SQUARE BELOW**



\* No Carbocation Intermediate  
 No Rearrangements  
 "Mercurinium Ion"

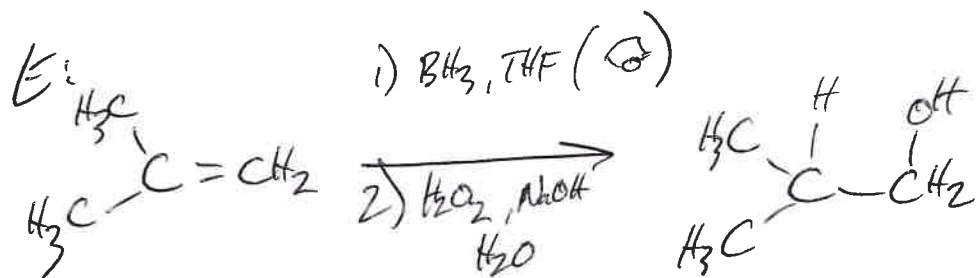


Mechanism unclear

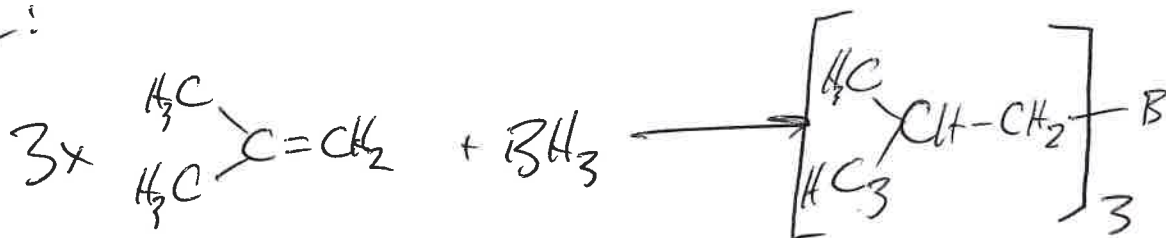
Course Chem 343 Lecturer Cellman  
 Day Friday Date 10/09/15  
 Notes Taken By NB Total # of Pages 5

Submit a *Single-sided Copy* to the Undergraduate Office  
**NO NOT STAPLE - ONLY WRITE NOTES INSIDE THE SQUARE BELOW**

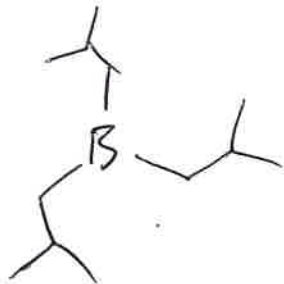
Hydroboration - oxidation of alkenes to form "anti-Markovnikov"  
 alcohols (e.g.,  $\text{CH}_3\text{CH}_2\text{CH}=\text{CH}_2 \xrightarrow{\text{H}_2\text{O}^{\text{pH}}}$   $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2$ )



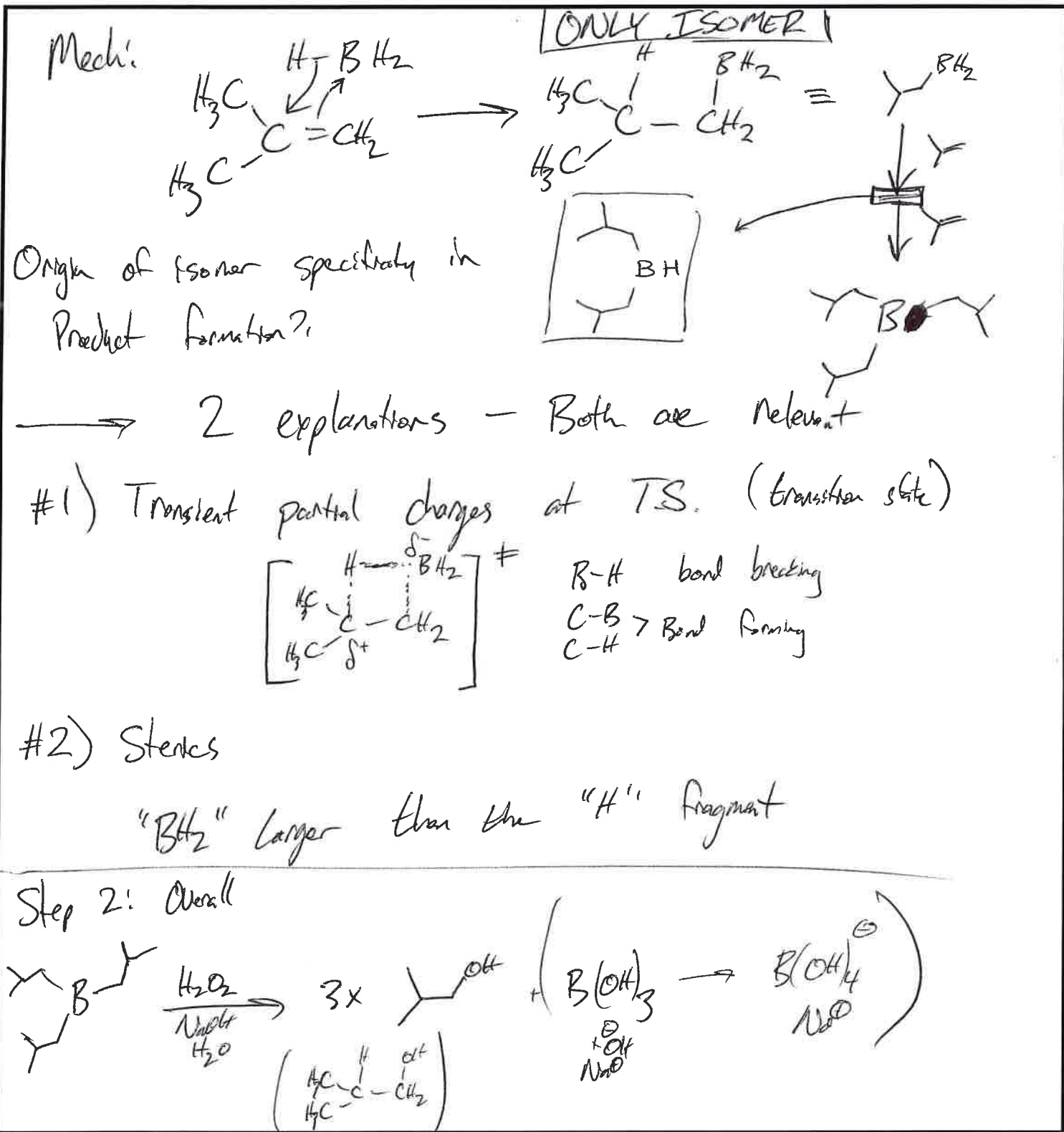
Step 1:



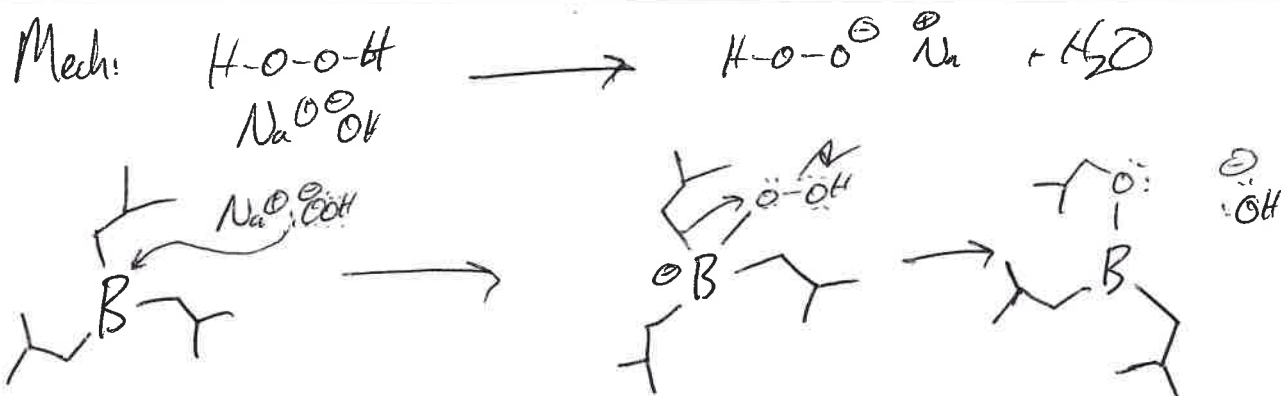
Alternative drawing for the "organoborane" intermediate  
 (stable)



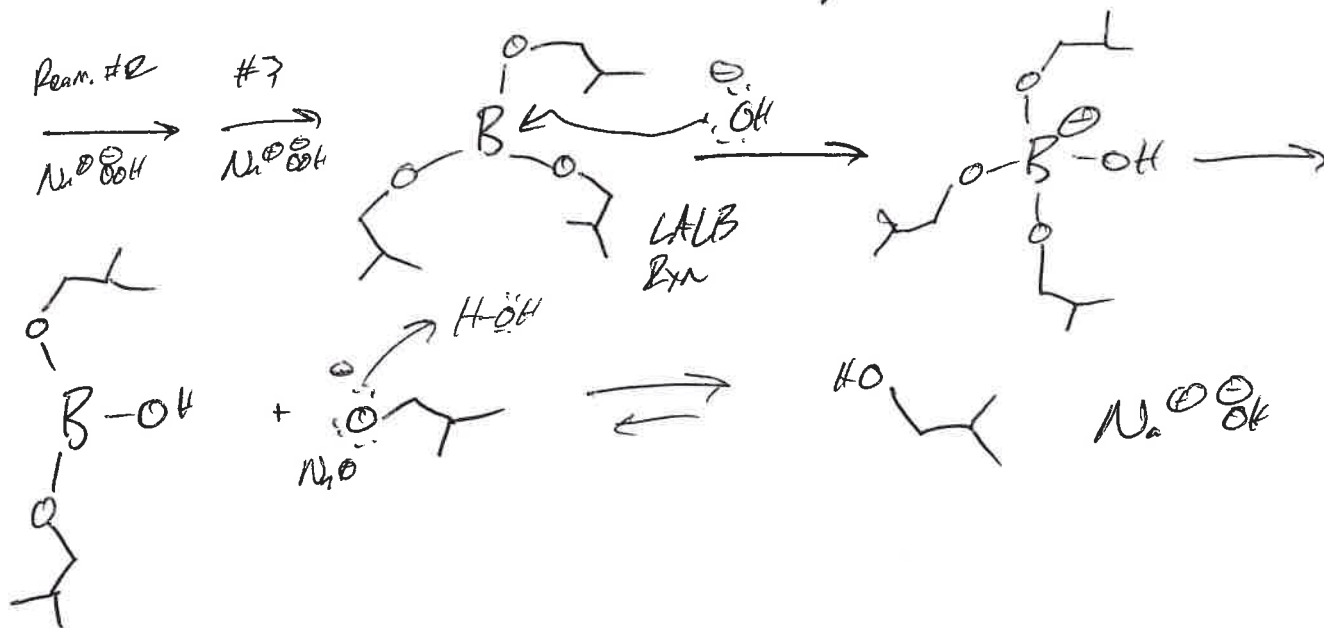
Submit a *Single-sided Copy* to the Undergraduate Office  
**NO NOT STAPLE - ONLY WRITE NOTES INSIDE THE SQUARE BELOW**



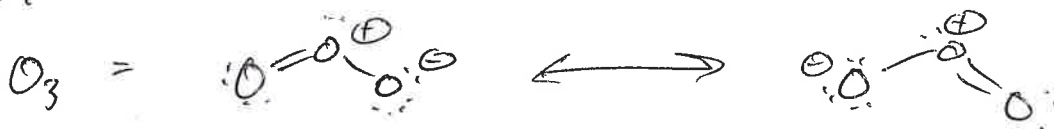
Submit a *Single-sided Copy* to the Undergraduate Office  
**NO NOT STAPLE - ONLY WRITE NOTES INSIDE THE SQUARE BELOW**



[Note: analogous to alkyl migration in  $\text{C}^{\oplus}$  rearrangement]



Ozonolysis

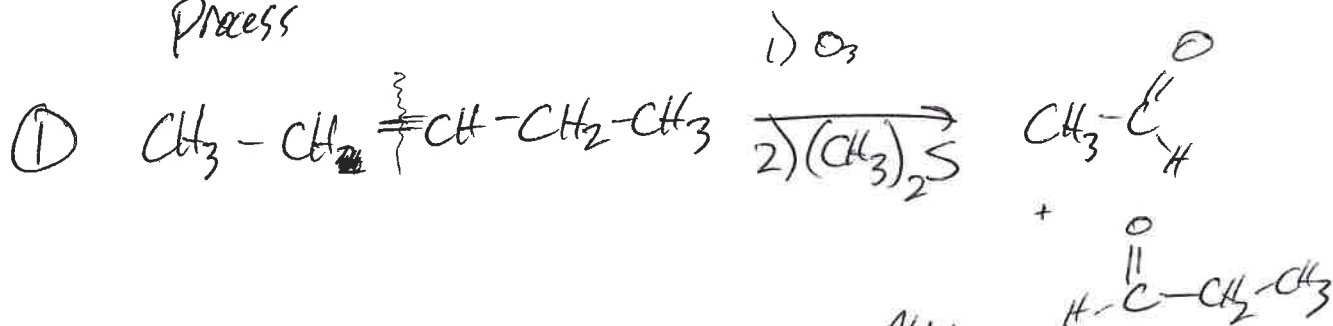


Course Chem 343 Lecturer Coellman  
 Day Friday Date 10/09/15  
 Notes Taken By NB Total # of Pages 5

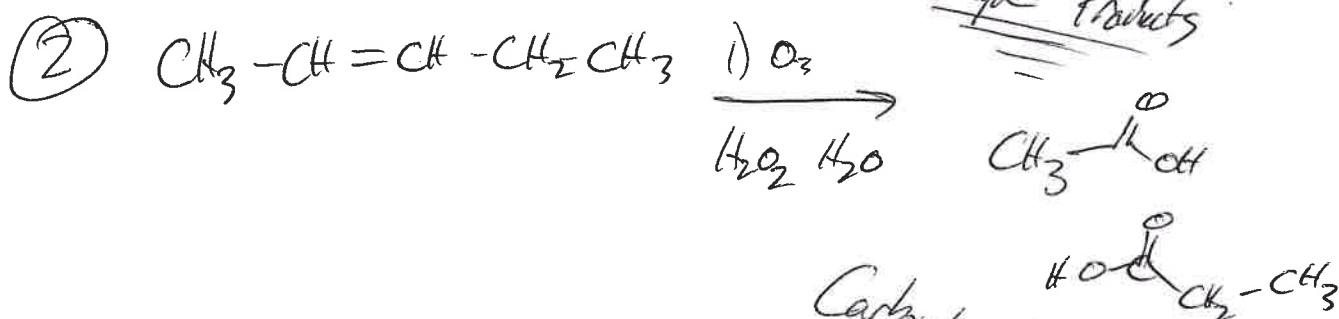
Submit a *Single-sided Copy* to the Undergraduate Office  
**NO NOT STAPLE - ONLY WRITE NOTES INSIDE THE SQUARE BELOW**

Overall - 2 variations on the alkene + O<sub>3</sub> rxn

Process



Aldehyde Products



Carboxylic Acid Products

In general

