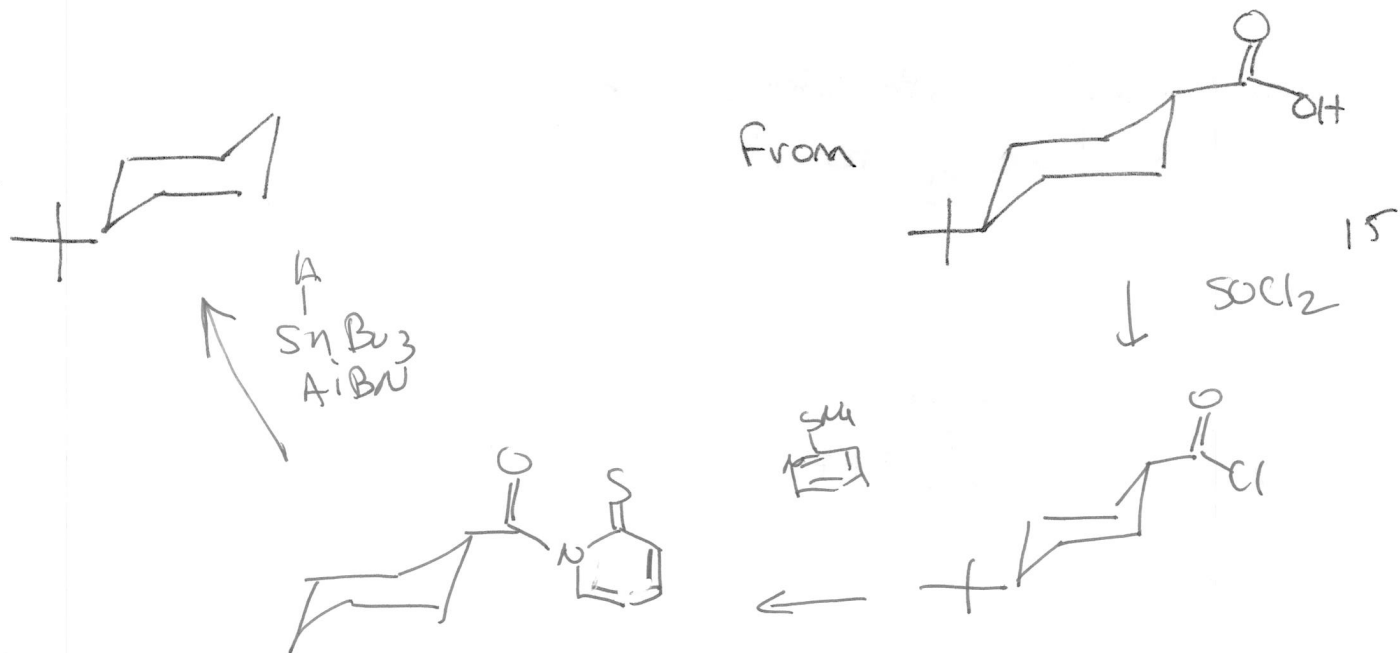
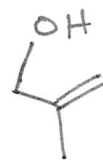


enantiopure

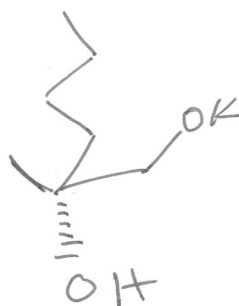
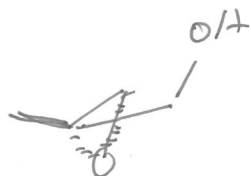
from



10

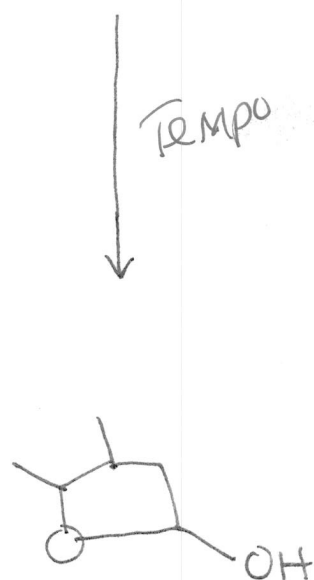
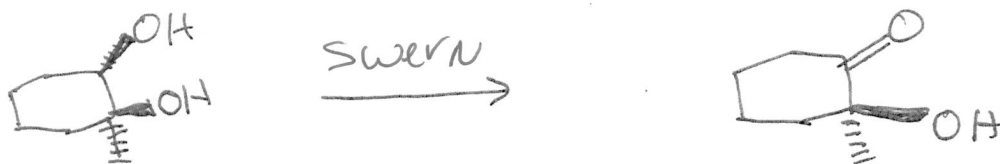
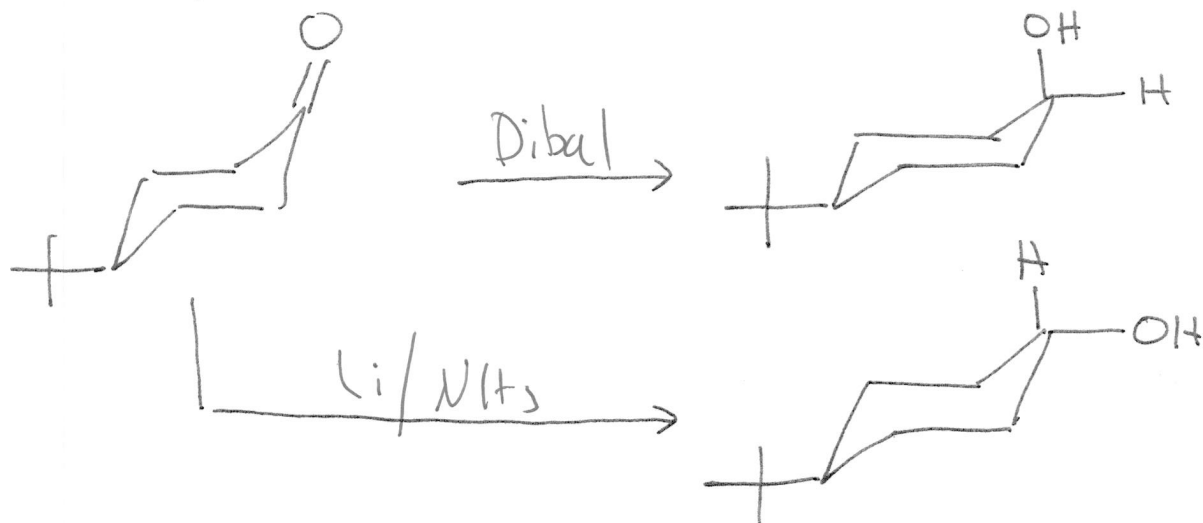
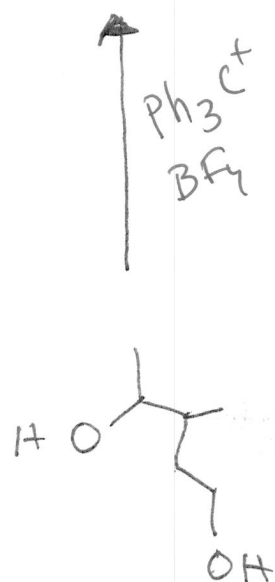
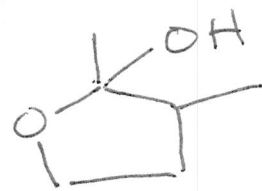
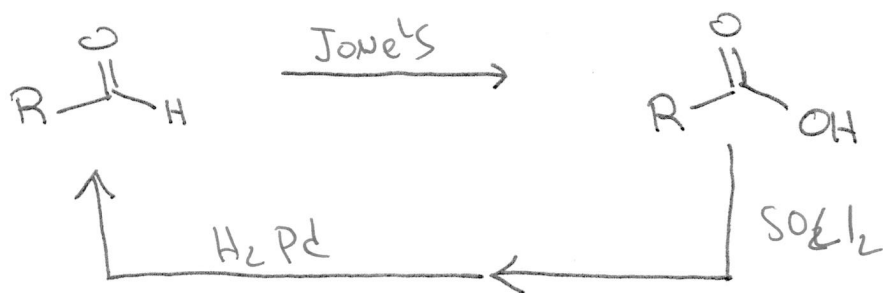
↓ -

+ Diels
SE

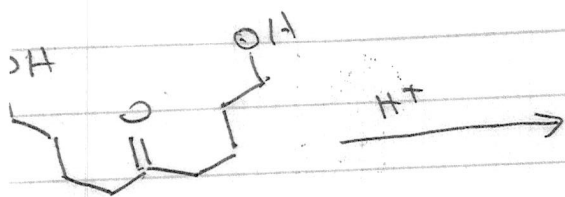


(55pts)

Give the reagent(s) and solvent on each arrow required for the transformation

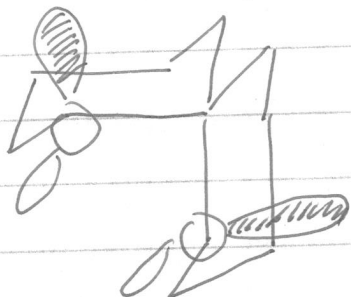


20



3 products
draw all three
circle the most stable

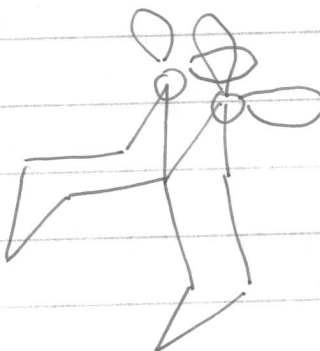
2 Anomeric effects



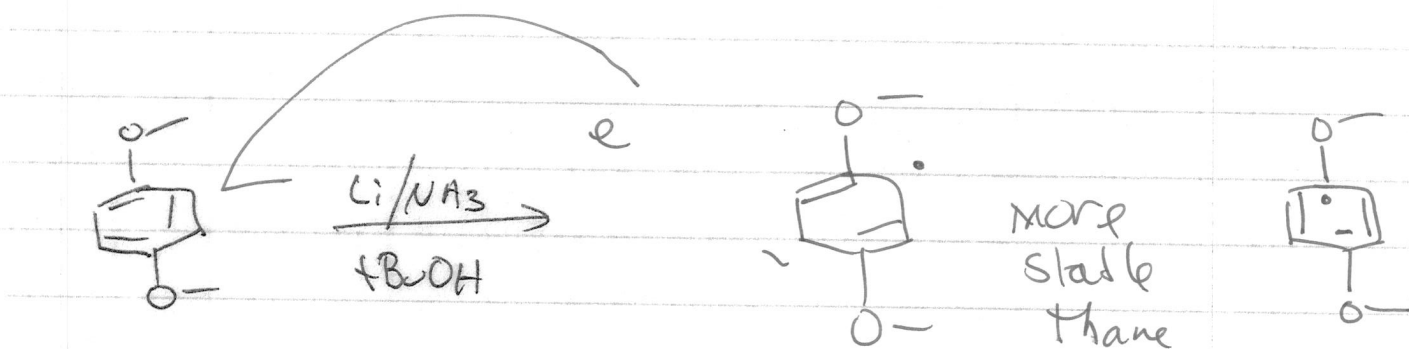
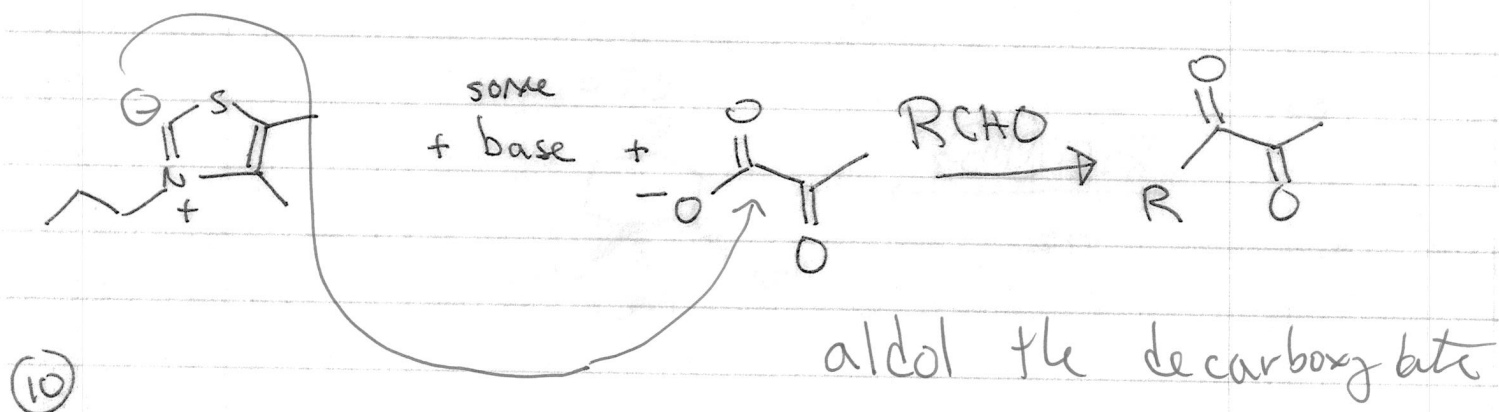
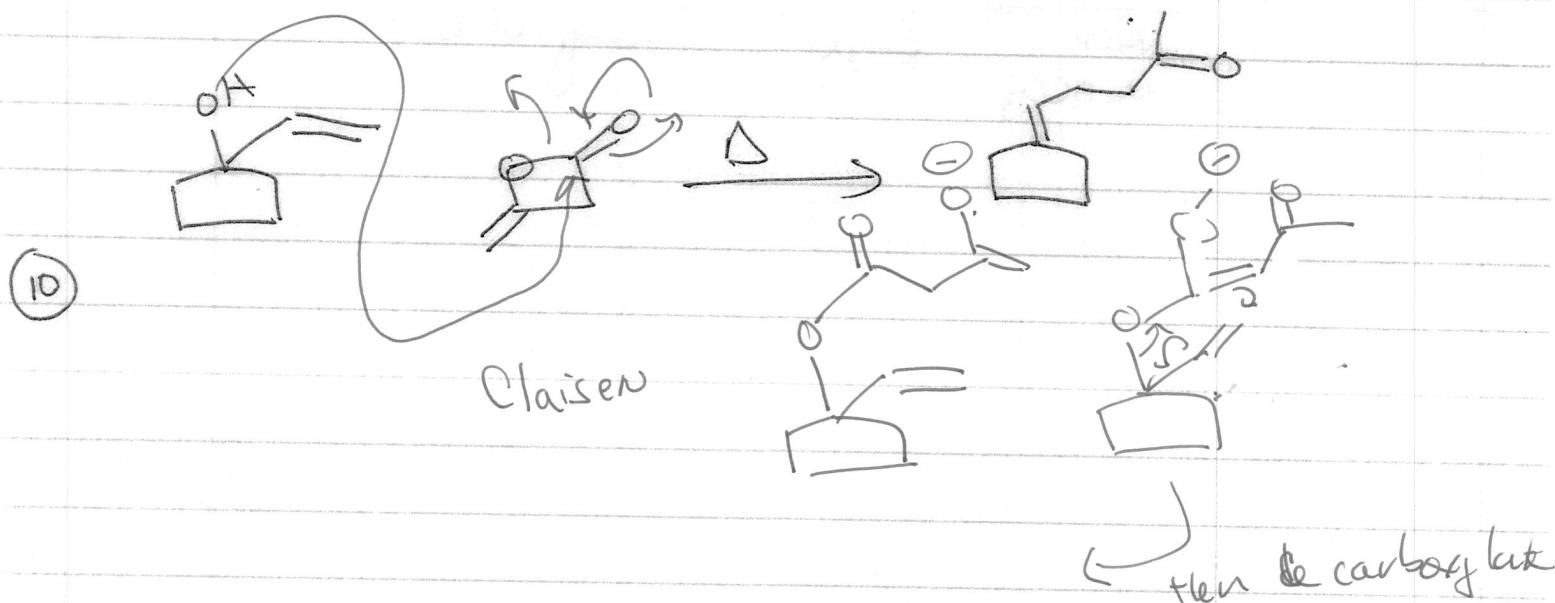
1 Anomeric effects



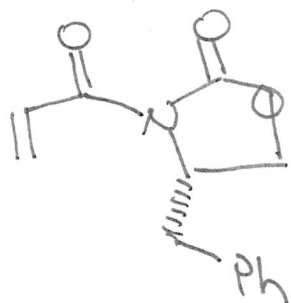
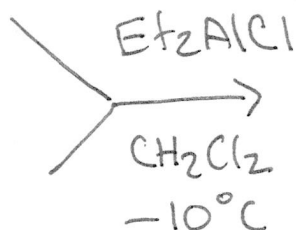
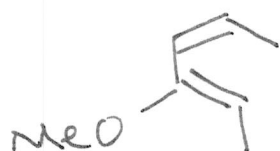
0 Anomeric effects



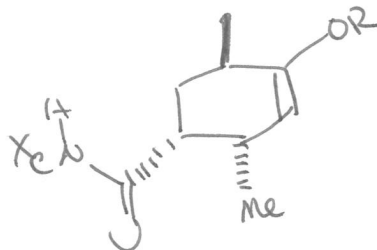
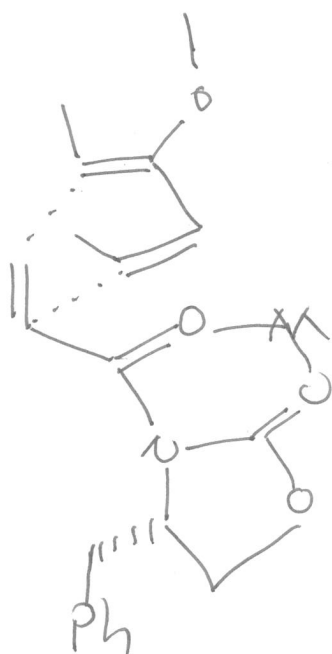
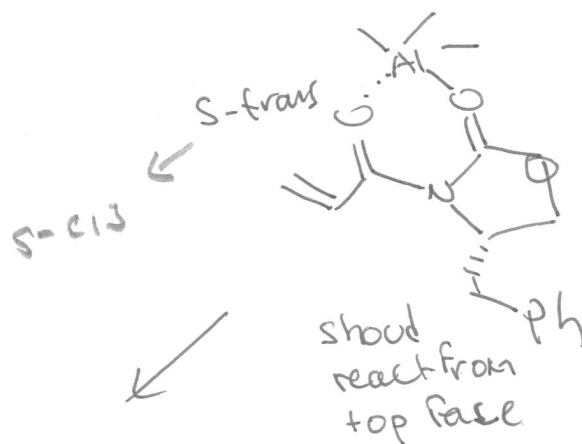
Give the mechanisms for the following transformations

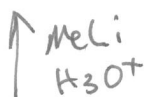
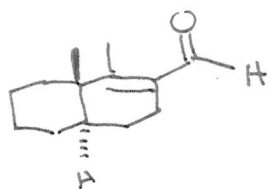


Draw the TS AND Predict most likely product.



1) get the dienophile right



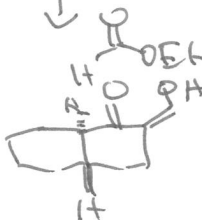
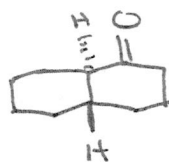


LDA

MeI



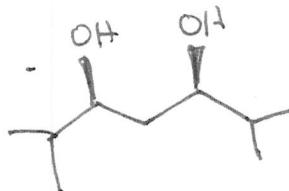
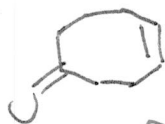
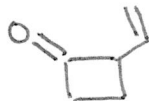
from



MeOH

H⁺

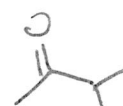
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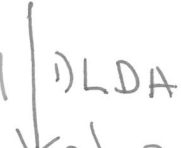
racemic



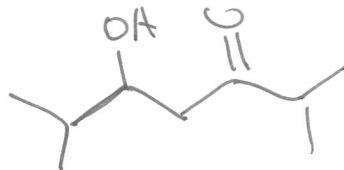
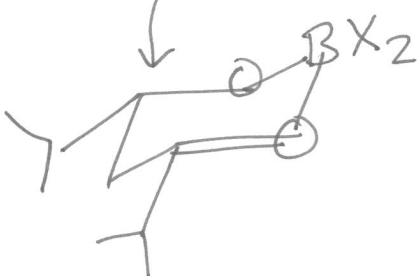
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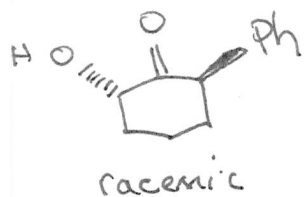


your book says



but





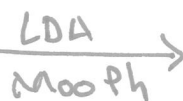
from



20 pts



CuI
 BiMgPh

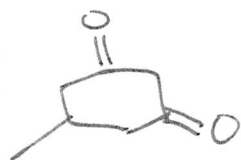


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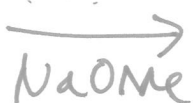
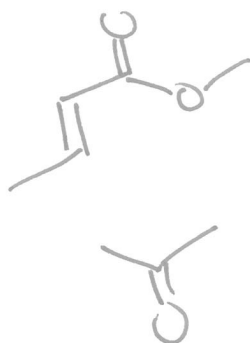


+

1 other carbon source



5 pts



product