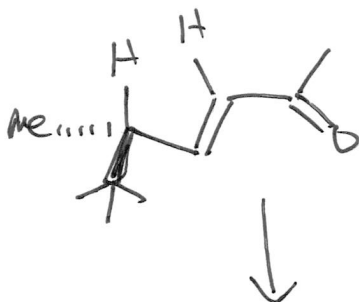
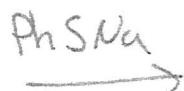
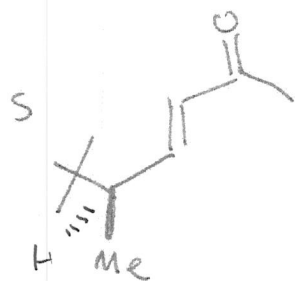
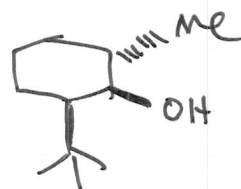
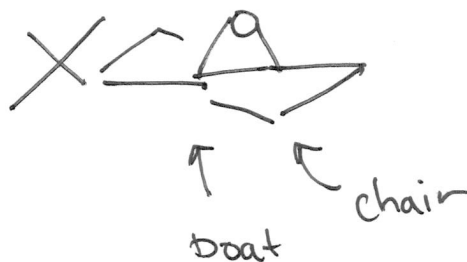
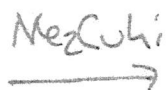
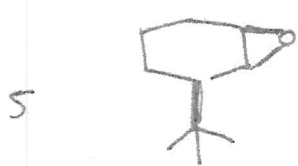
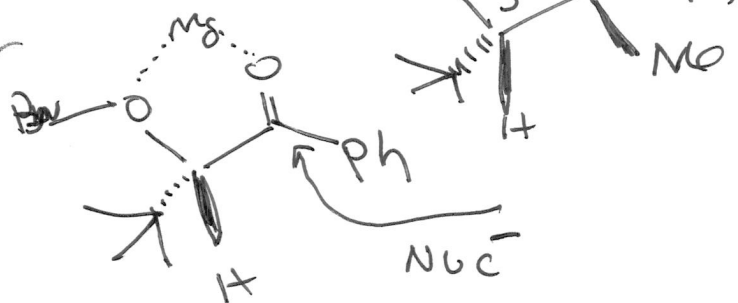
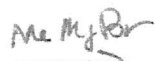
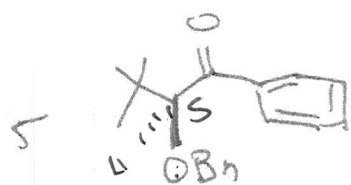
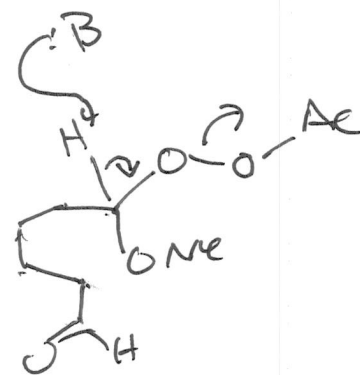
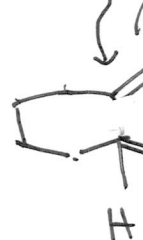
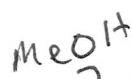
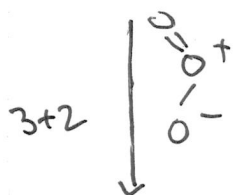
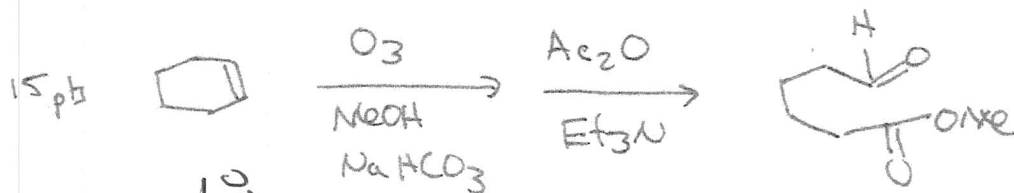


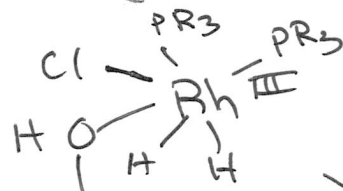
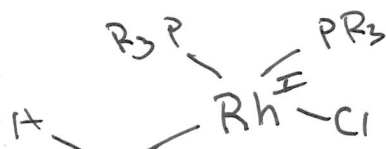
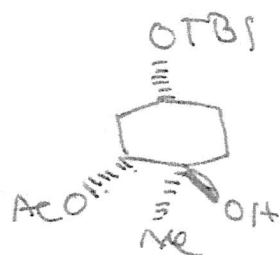
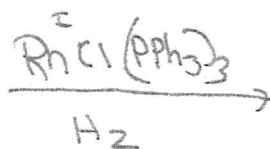
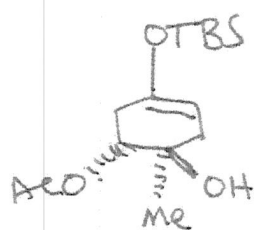
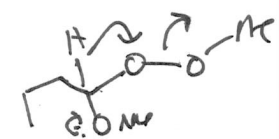
Give the product



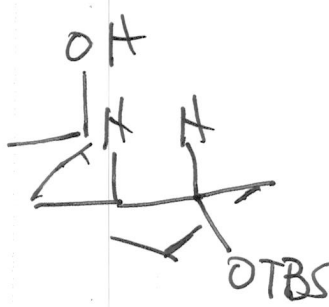
Give the Mechanism



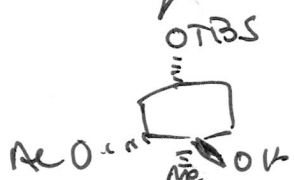
or



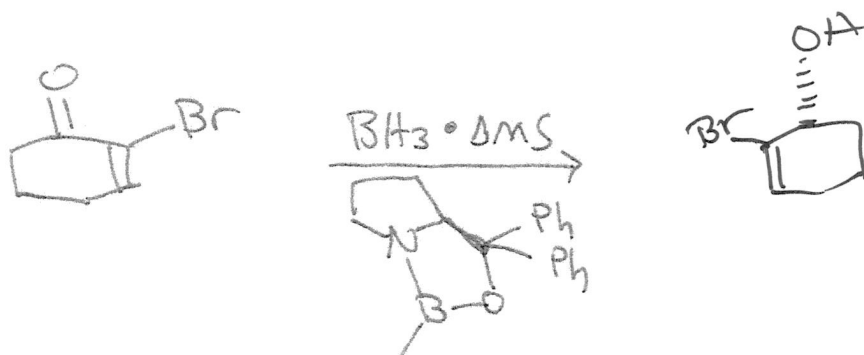
MI



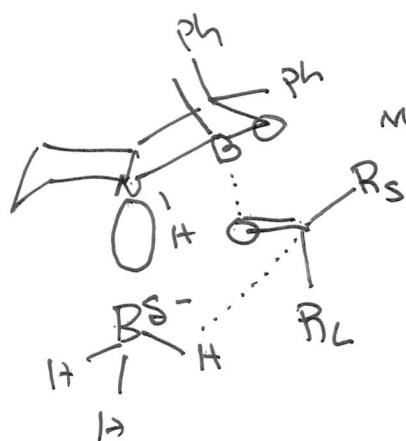
RE



Draw TS and Predict
the product

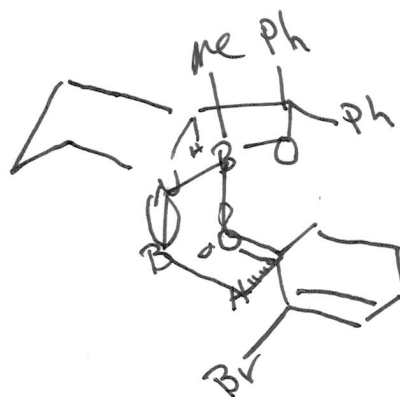
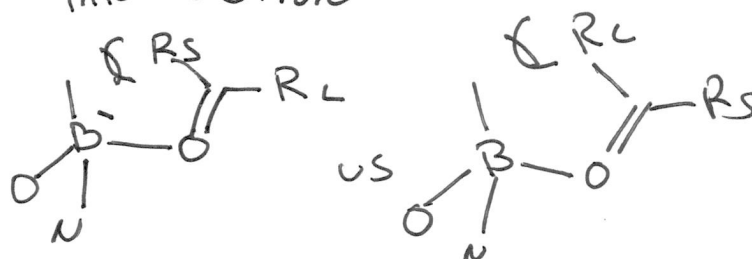


p454



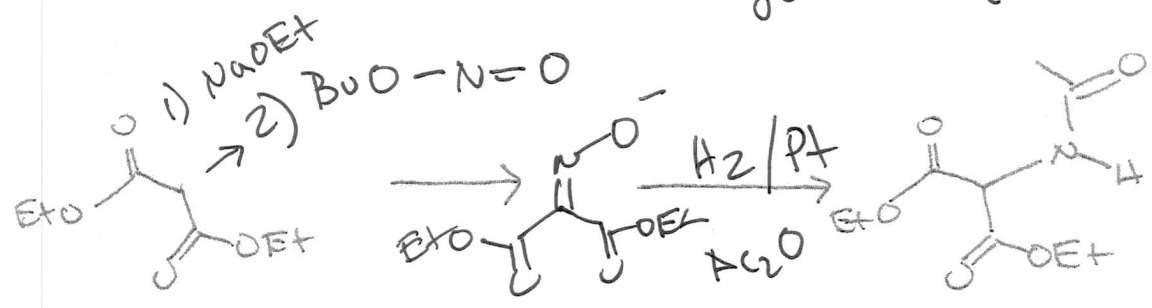
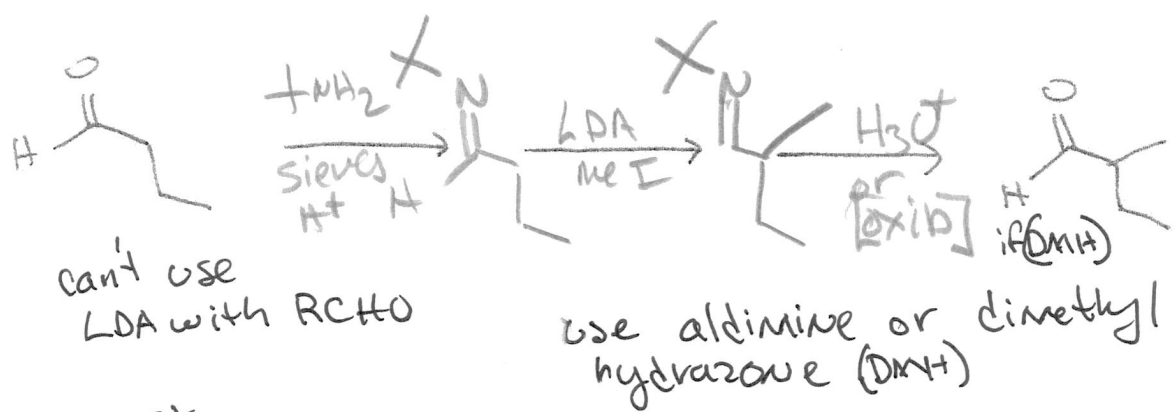
S_5
must be cis fused

R_S is where it
is because of
inter action

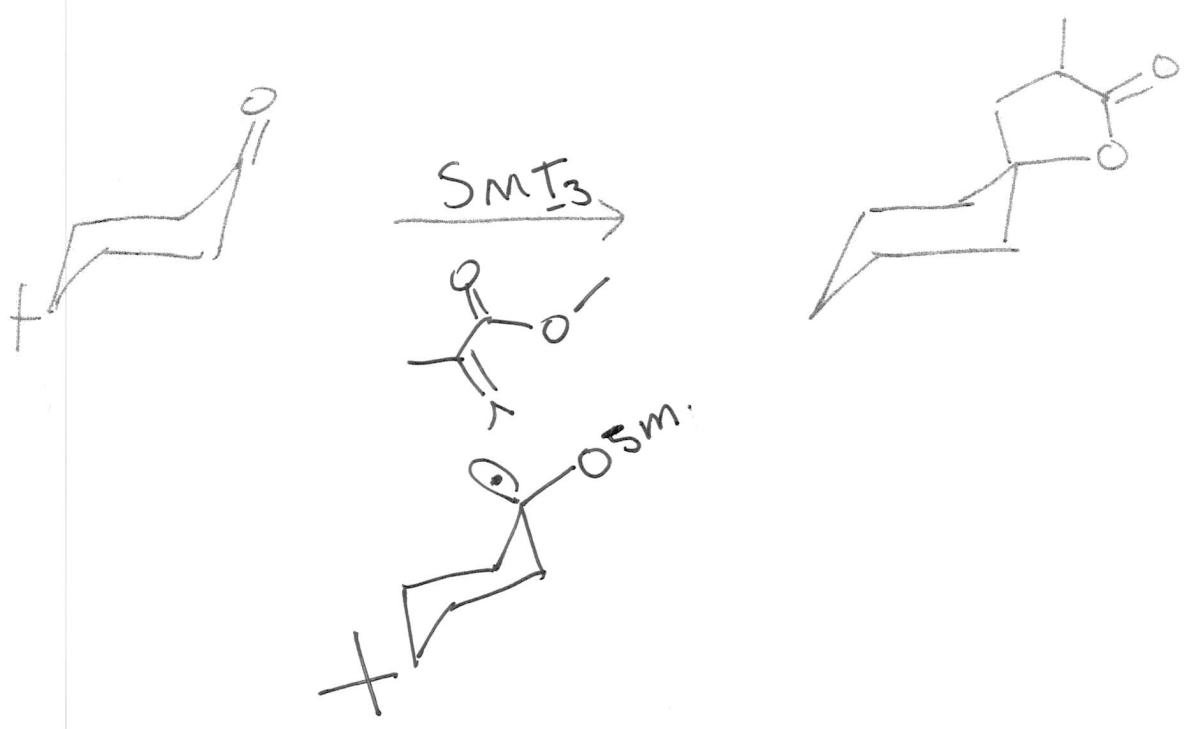


30 pts

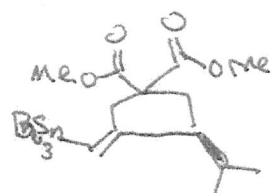
Give all reagents necessary and the order of addition

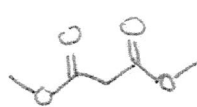


in your notes
source of N⁺R



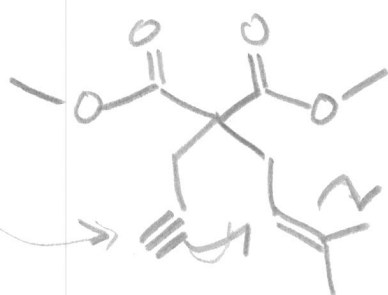
Propose a Synthesis and show all reagents and solvents with optimal timing of events



From  and other reagents

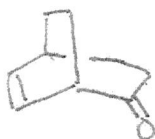
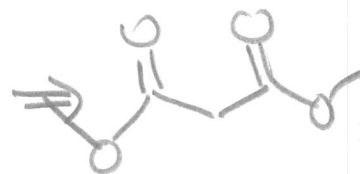
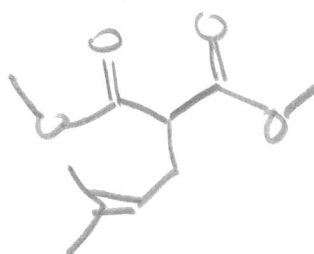


radical

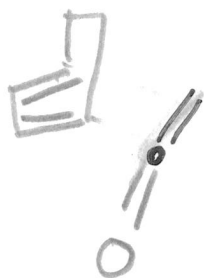


From  AIBN SnBu_3

10pts

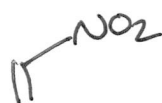


from

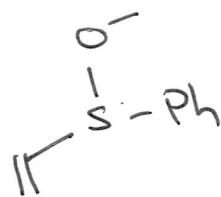


10pts

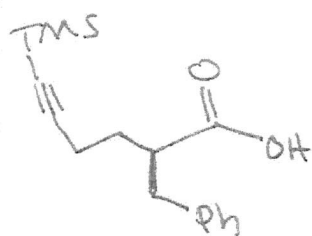
ketone or its equiv.



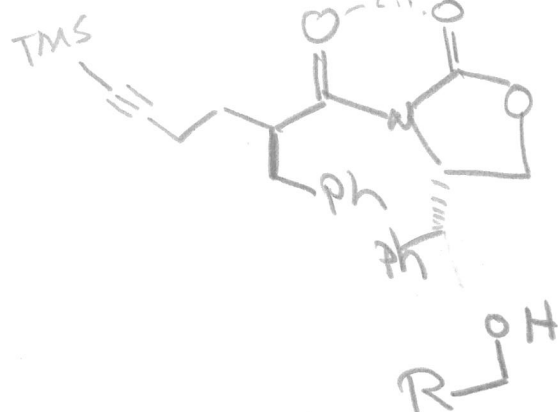
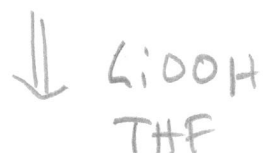
the
Nef



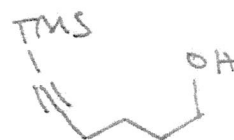
then
pummerer



optically active

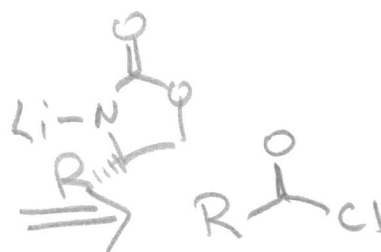


from



25pt

+ any reagents
you require

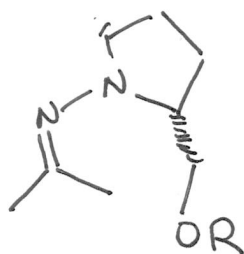


Evans's
oxazolidinone



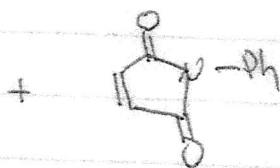
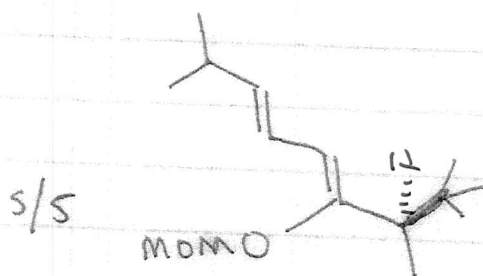
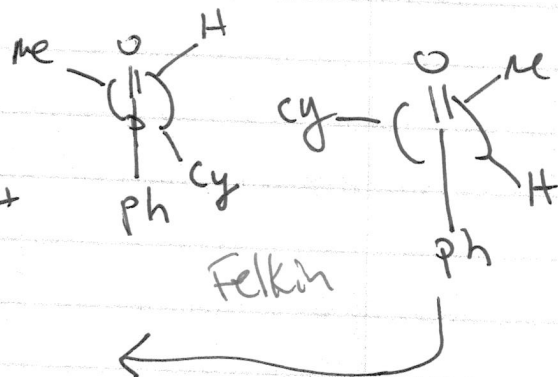
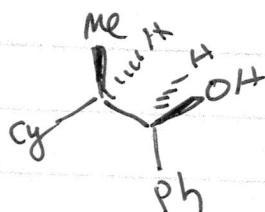
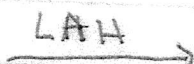
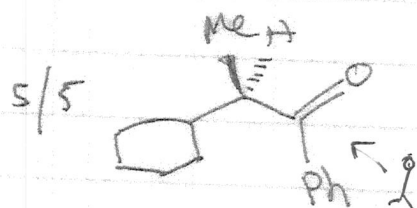
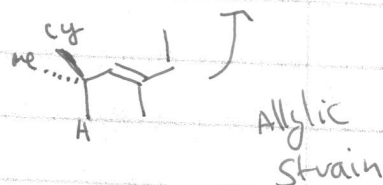
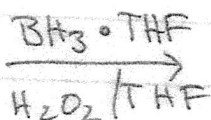
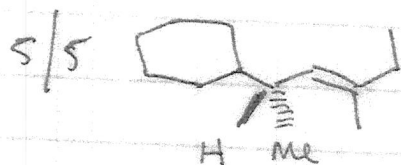
Jones

This is an Evans Alkylation



$\longrightarrow$
 is used
 on ketones
 not acids!

Give the ^{MAJOR} Product with Stereochem and the TS leading to it.



Allylic strain
endo Diels-Alder

