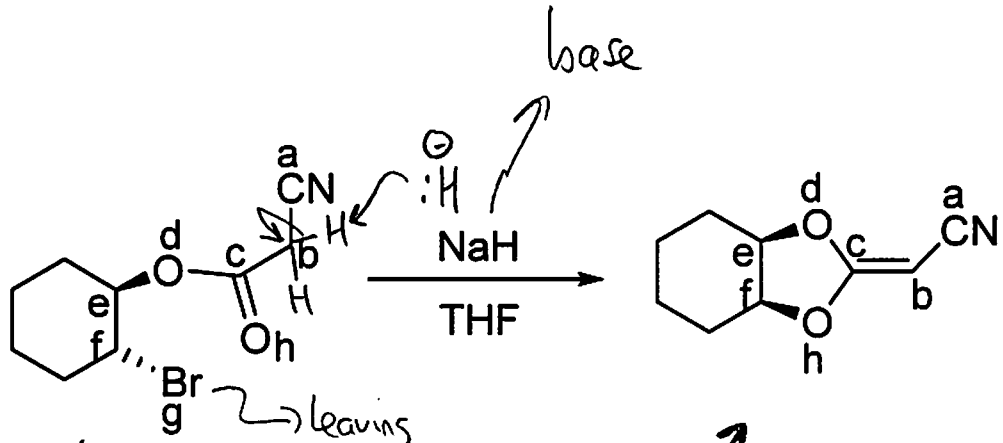
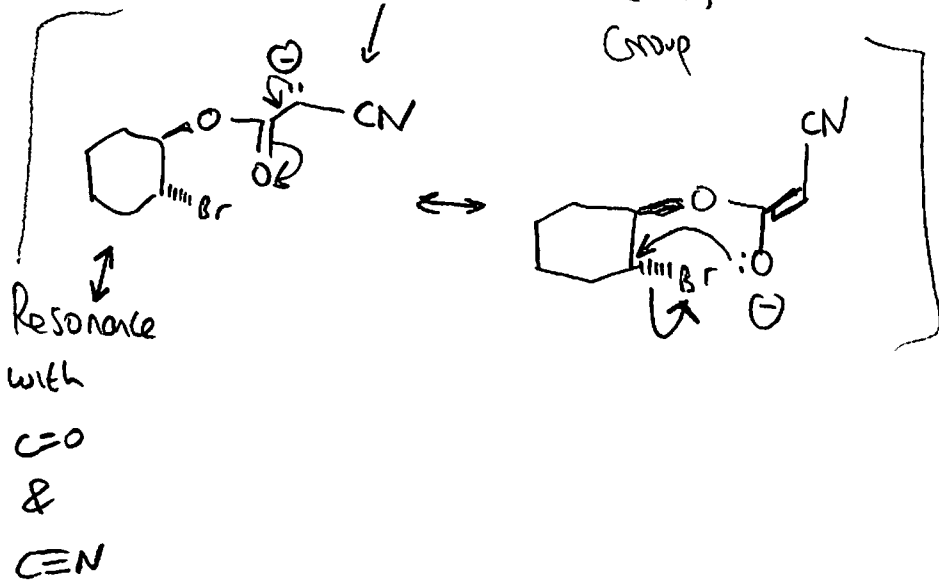


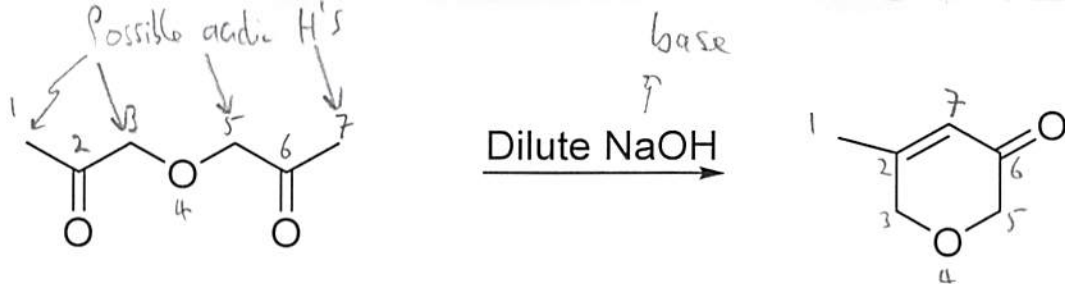
①



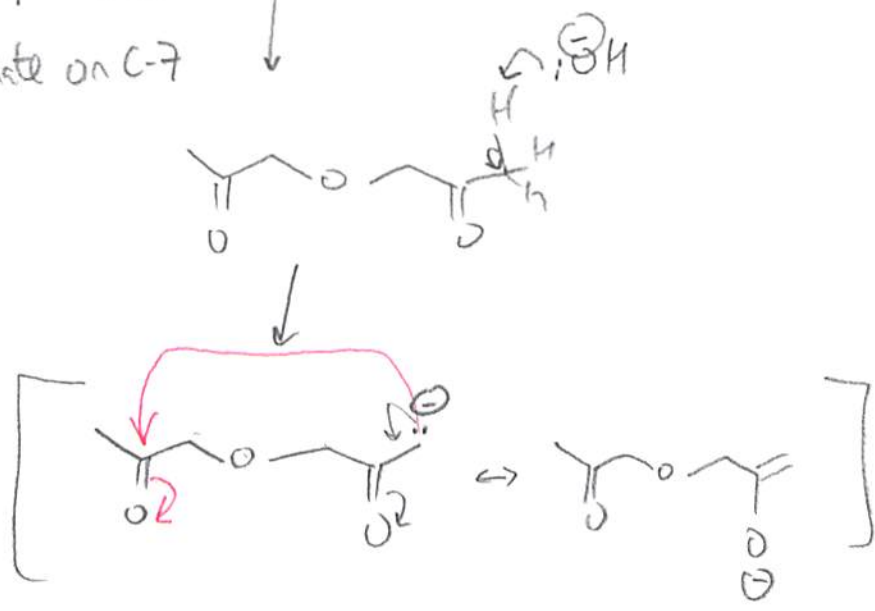
S_N2 attack from top face



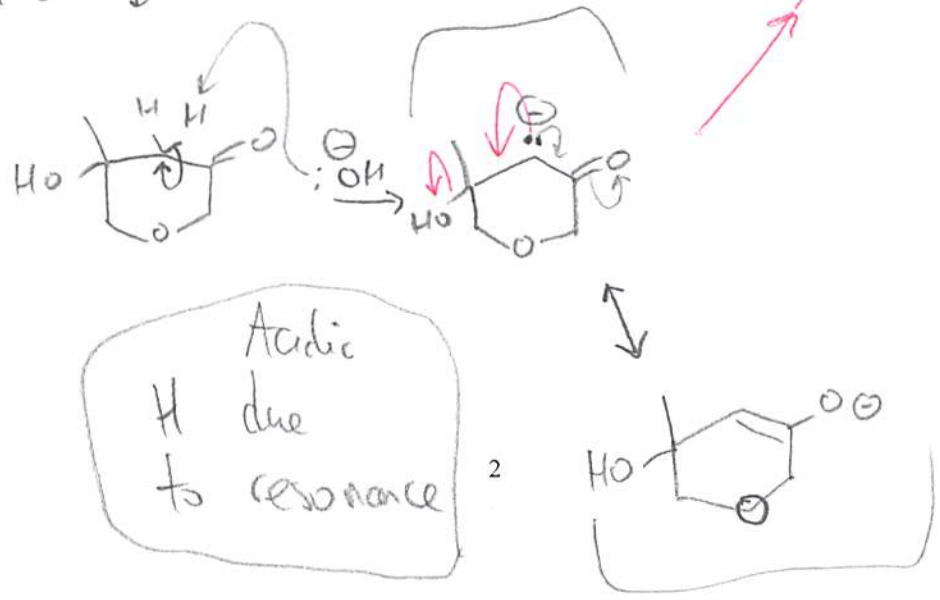
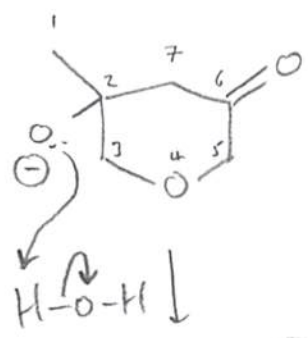
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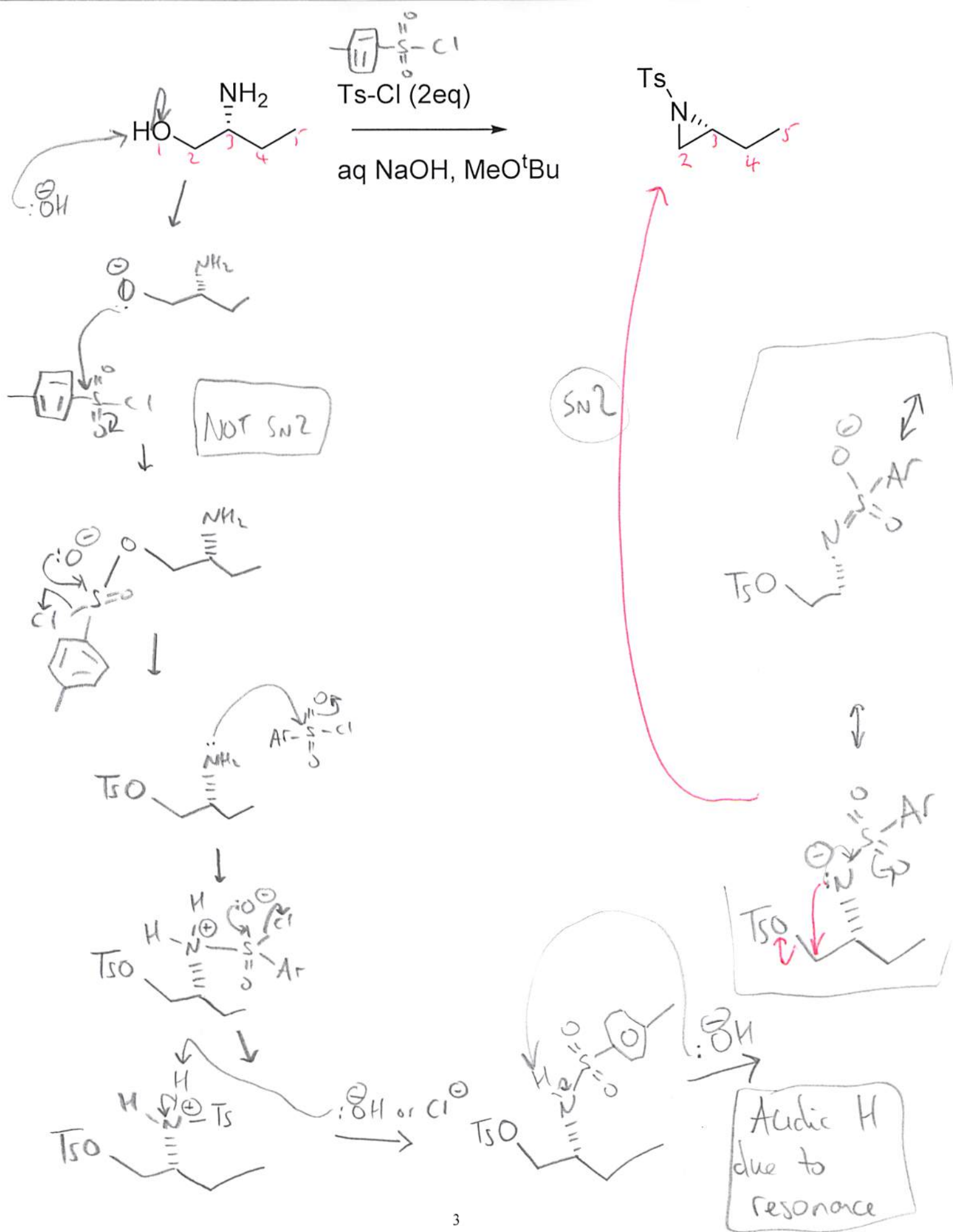


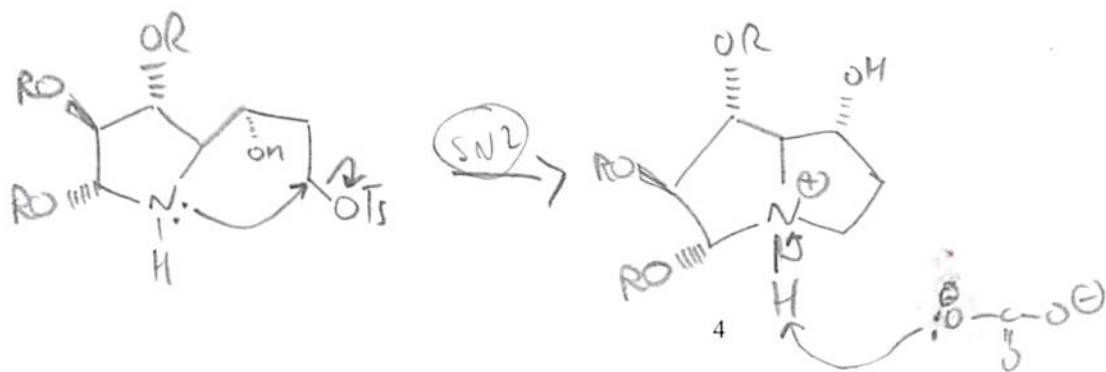
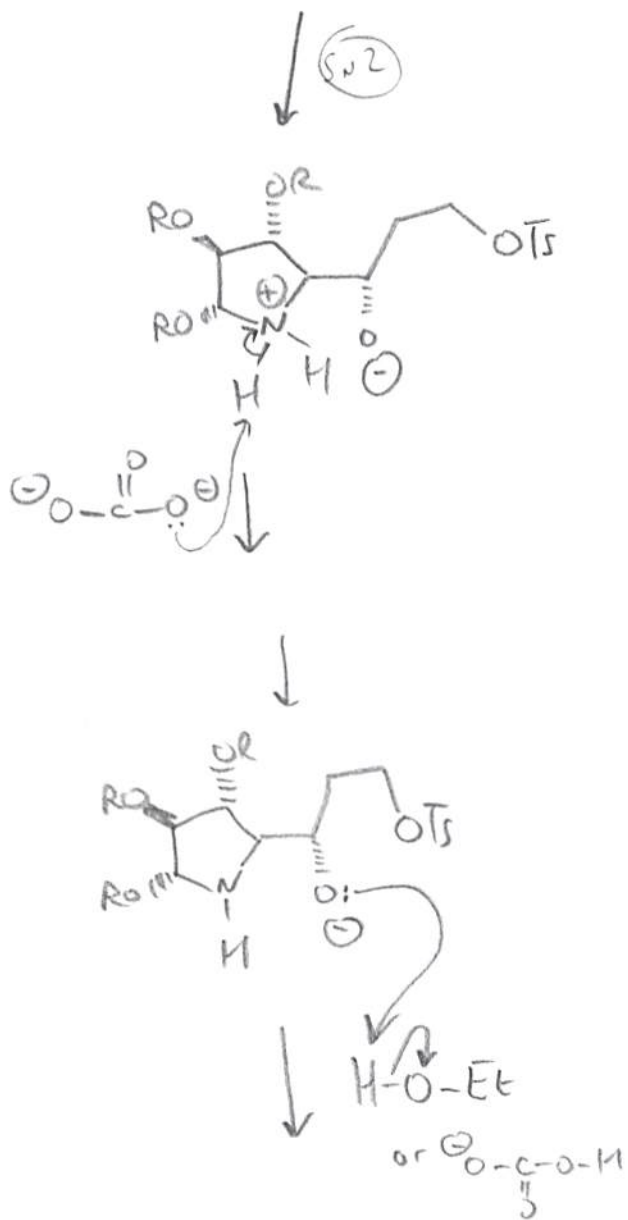
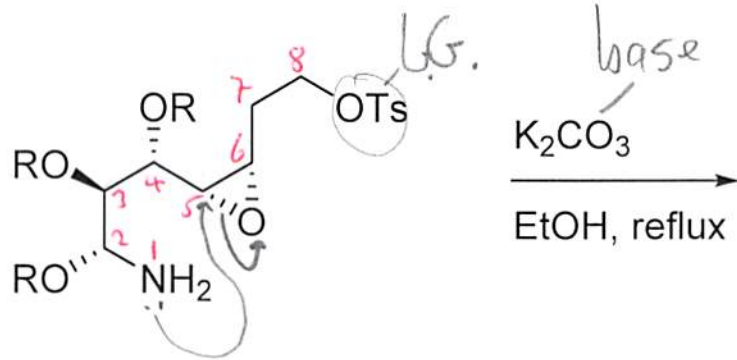
Since 7 → 2
deprotonate on C-7



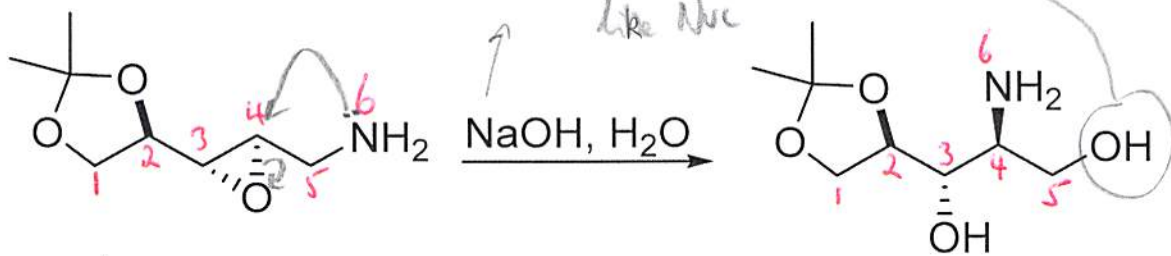
Eliminate
to form
CONJUGATED
system



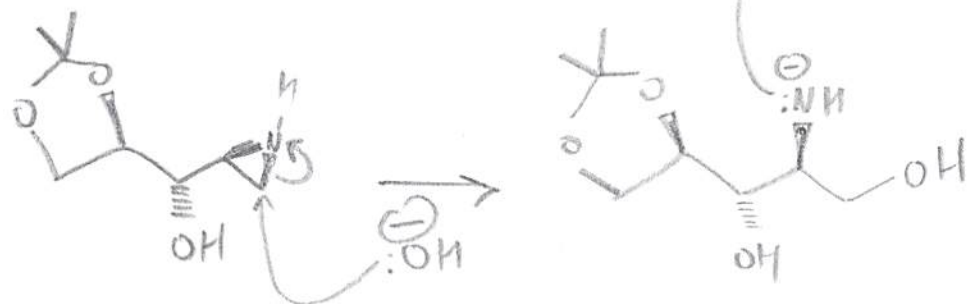
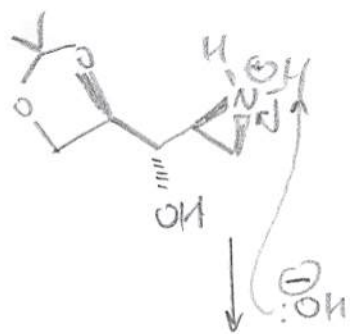
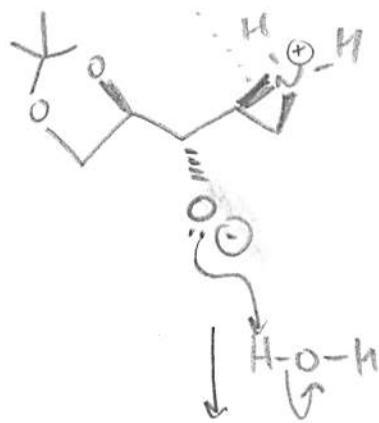




base & looks like Nucleophile

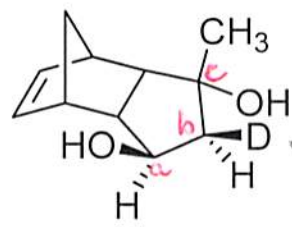
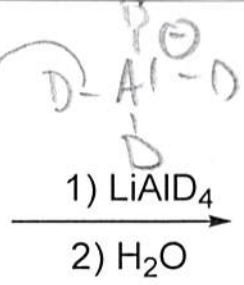
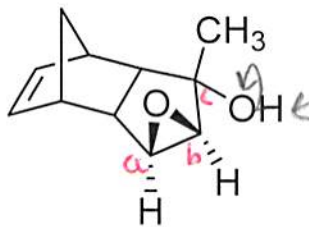


SN2



Release of ring strain

ANCHIMERIC ASSISTANCE



Retention of stereochem implies NOT

a simple $\text{S}_{\text{N}}2$ epoxide ring opening

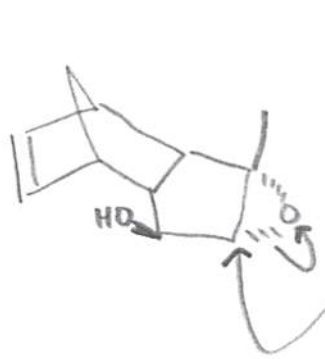
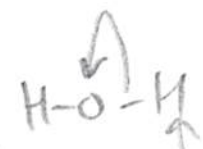
acts as a base



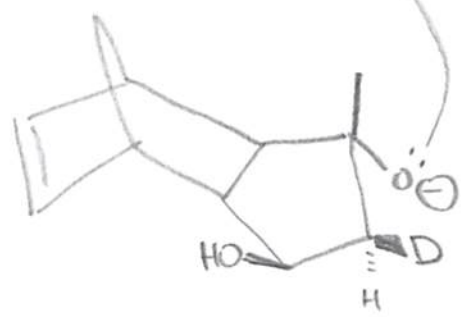
$\text{S}_{\text{N}}2$



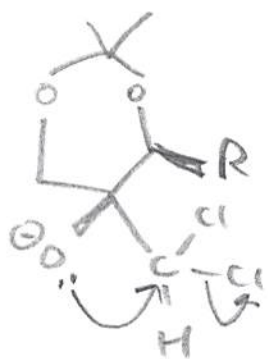
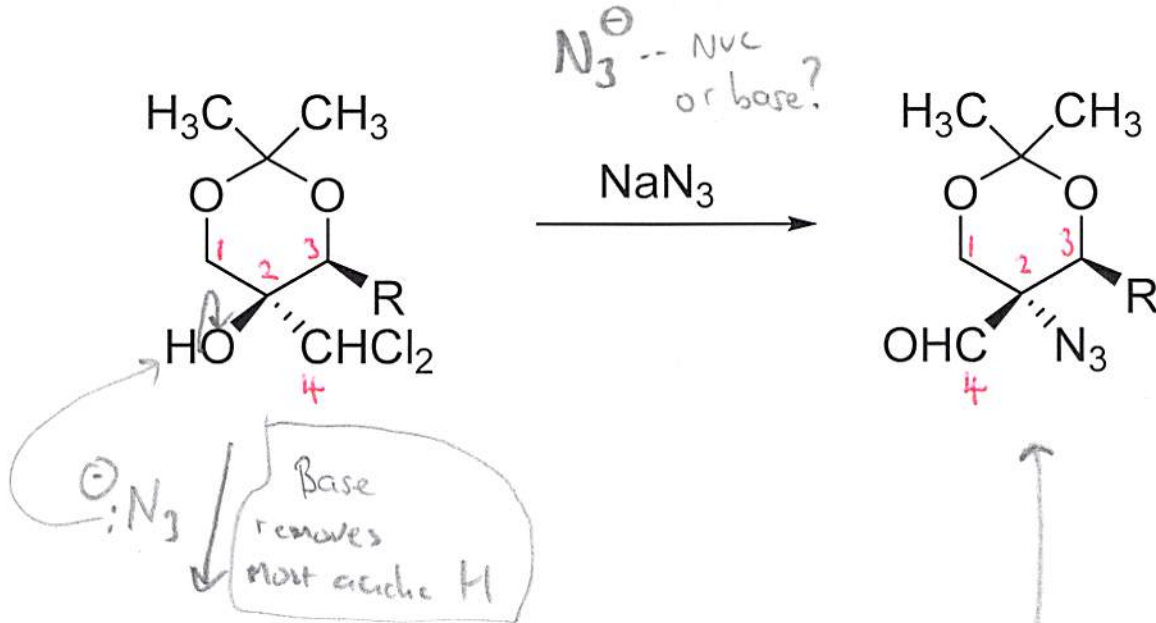
(SM) $\text{R}-\text{O}-\text{H}$
or
 $\text{H}-\text{O}-\text{H}$



$\text{S}_{\text{N}}2$
attack from top

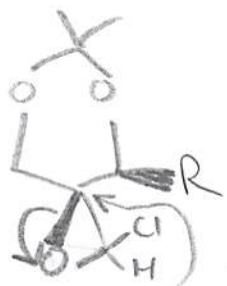


ANCHIMERIC ASSISTANCE

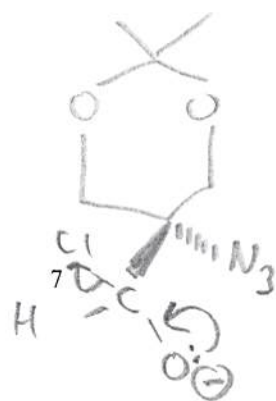


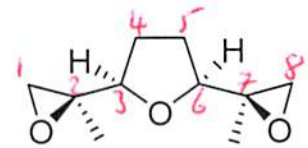
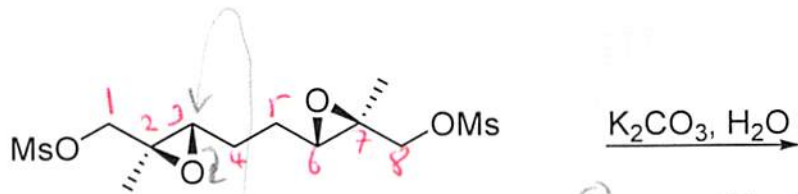
S_N2

epoxide

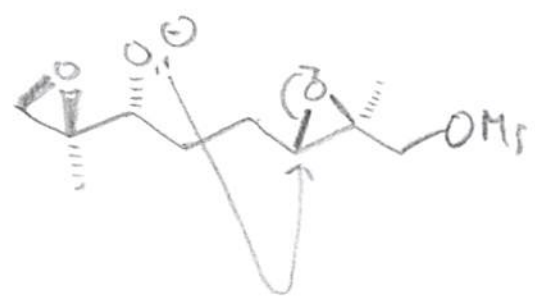
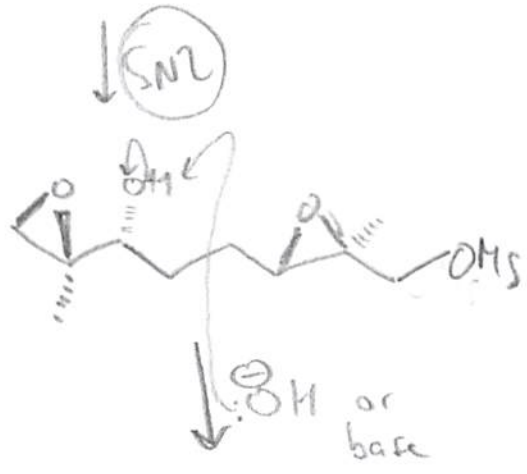
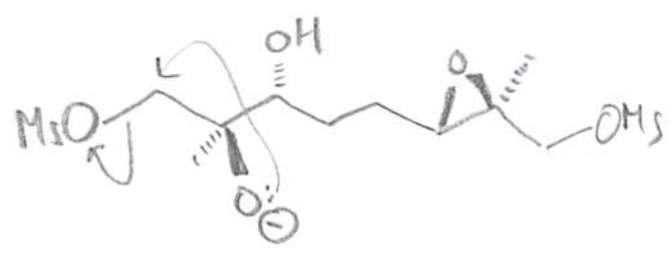
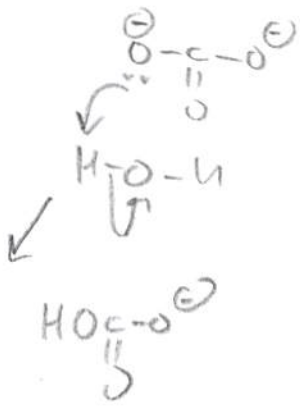


S_N2 attack from behind





attack
 least sterically
 hindered
 carbon



SN2



SN2

