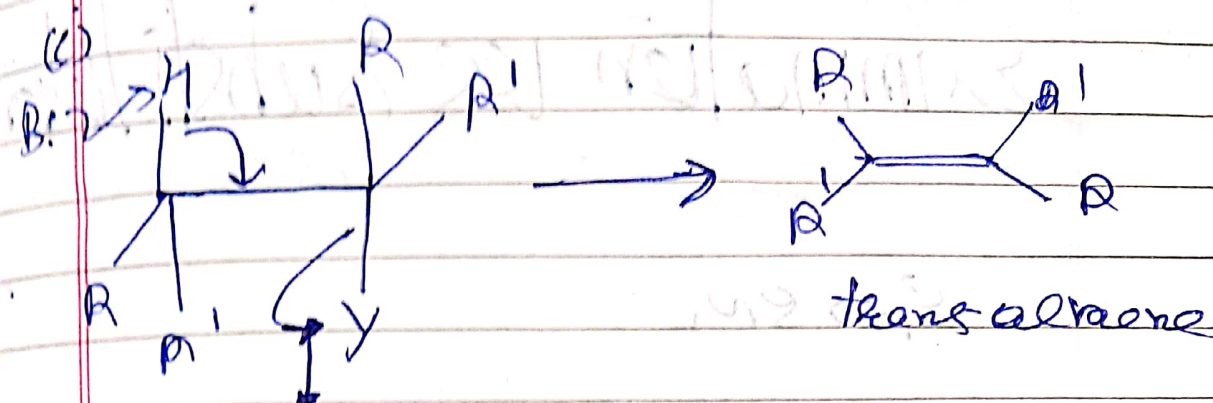
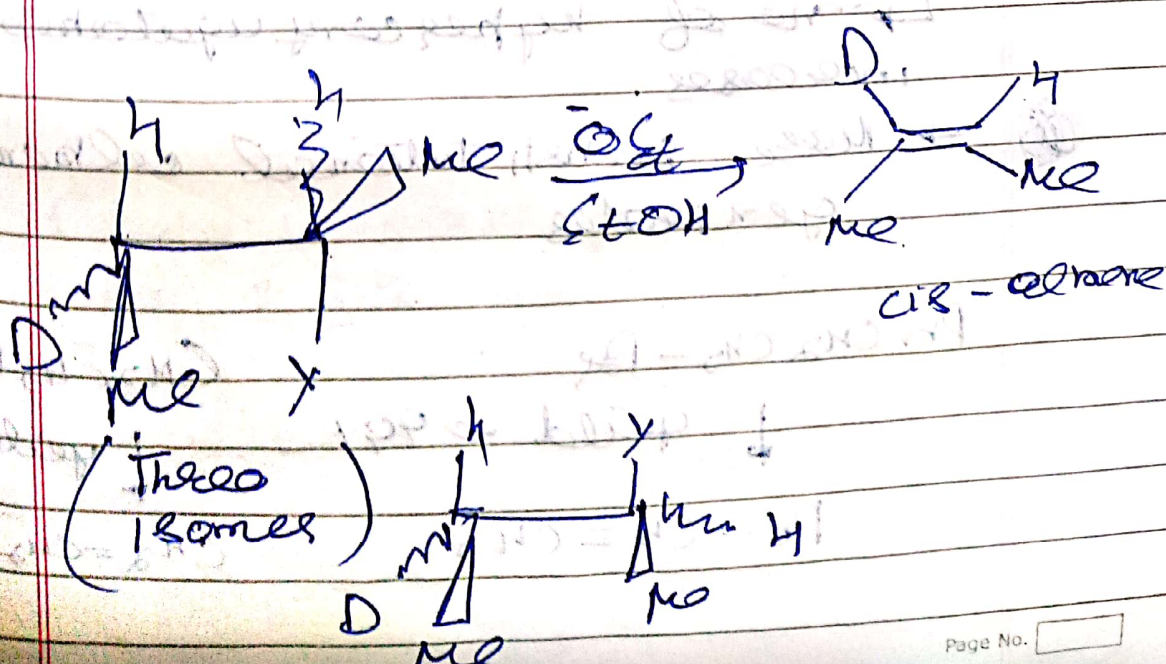
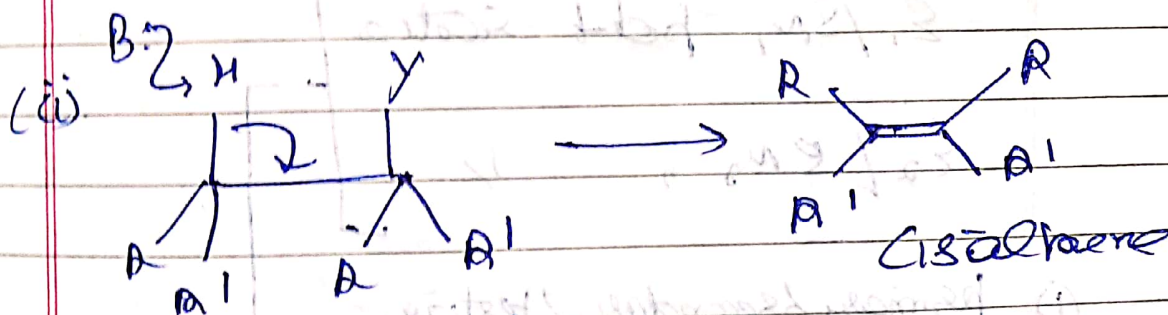
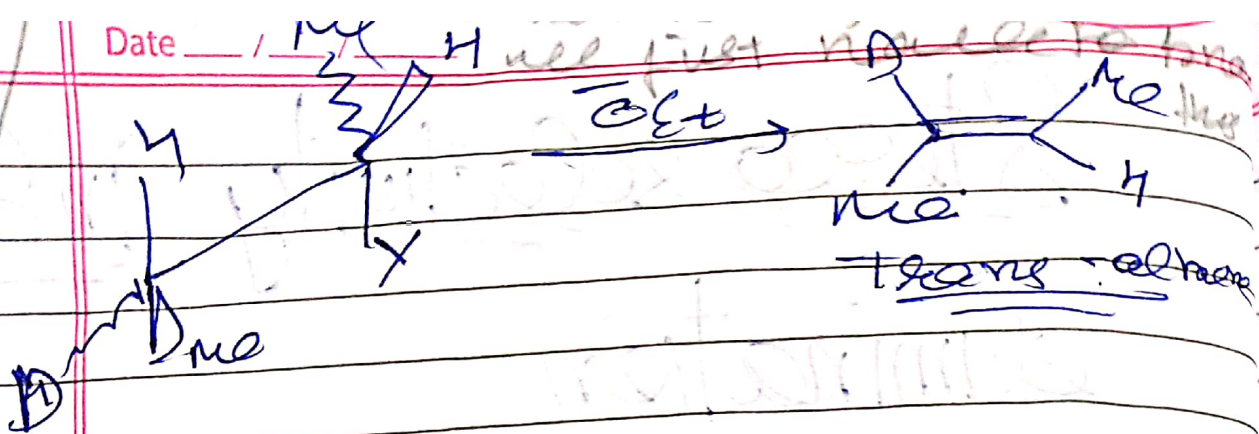


Stereo selectivity in E_2 elimination

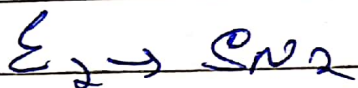
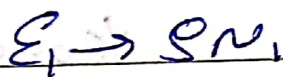


anti-periplanar
orientation preferable





Elimination vs Substitution



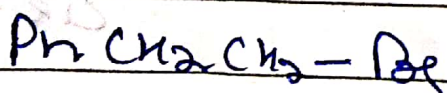
E_1/SN_1 pdt ratio

E_2/SN_2 1/

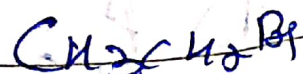
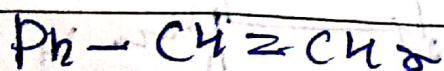
(i) primary / secondary / tertiary

→ no. of hyperconjugatable H increases

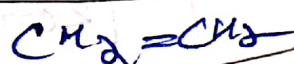
→ more substitutional alkenes generates



↓ yield = 99%



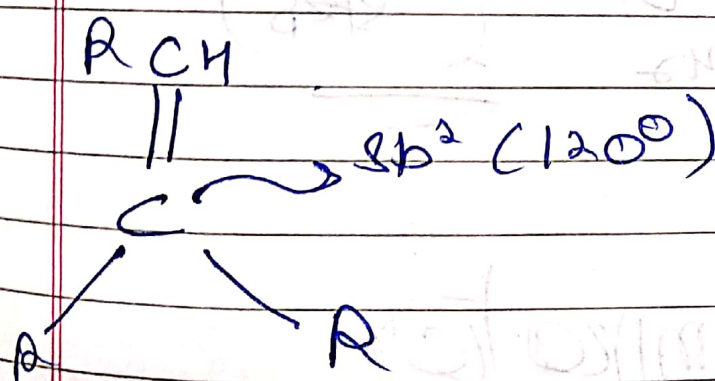
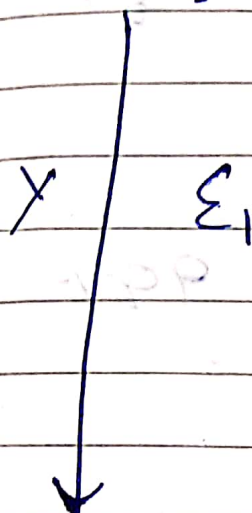
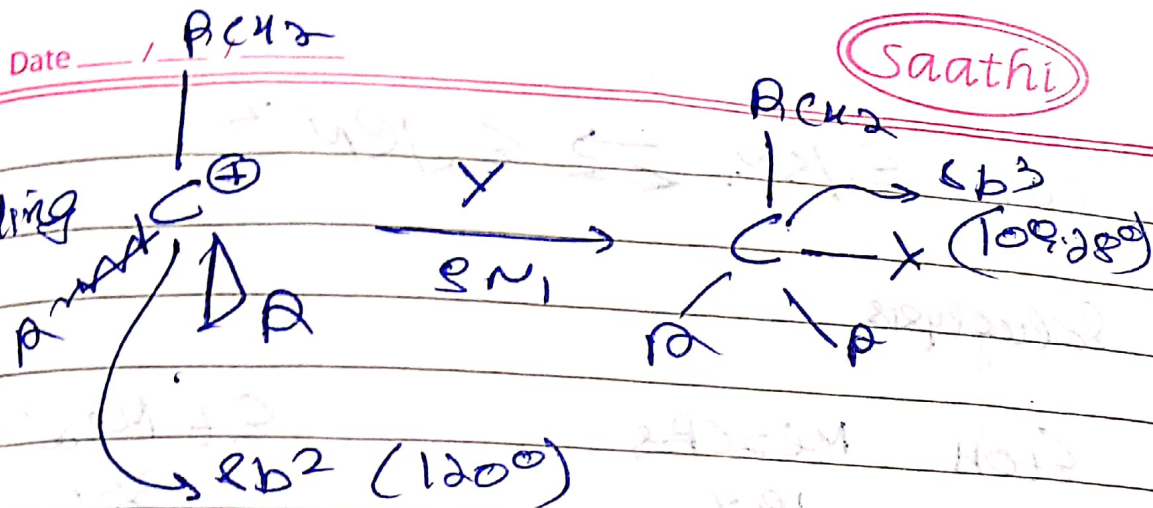
↓ yield = 14%



Date ___ / ___ / ___

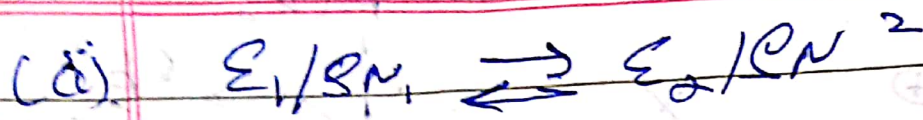
Saathi

Specific
Conditioning



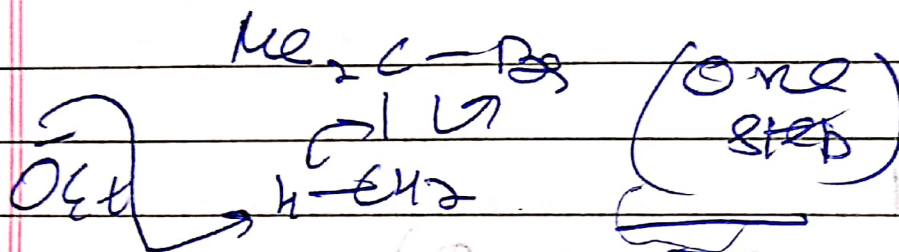
Entropy factor

Entropy increases for elimination rxn
so E_1/SN_1 or E_2/SN_2 increases

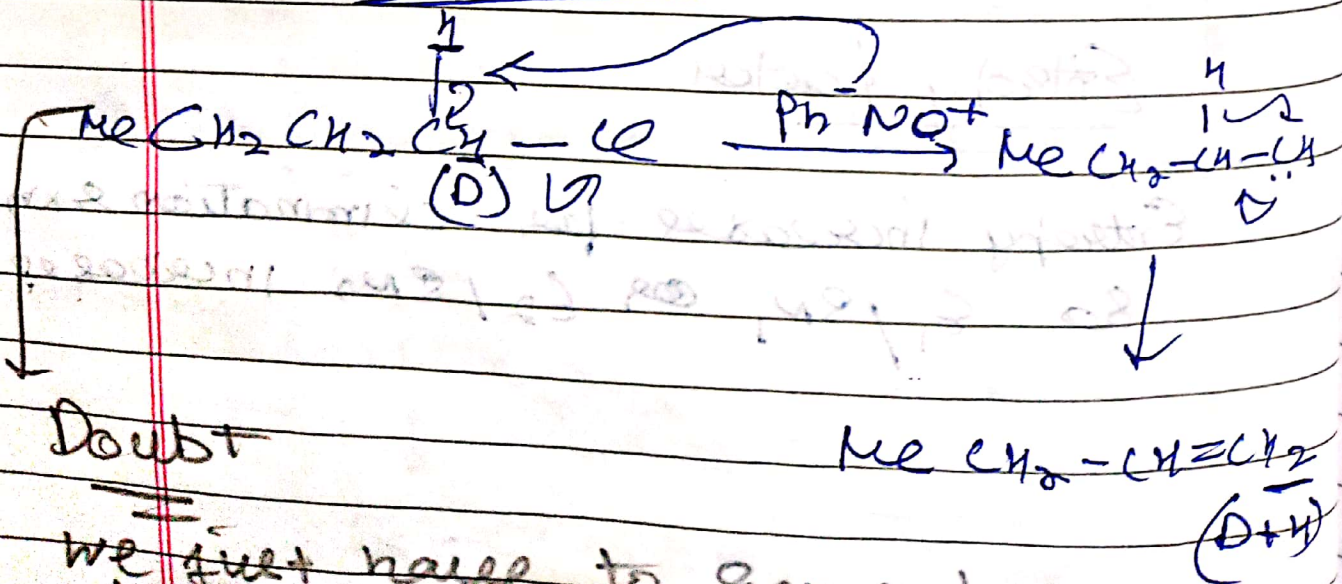


Analysis

EtOH	Me ₂ CO	Et Me ₂ CO
E_1/EN_1	19%	36%
alkene yield		
2 Me ₂ CO	93%	99%
E_2/EN_2		



1,2-elimination

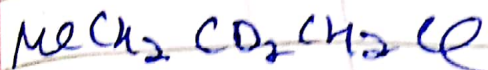
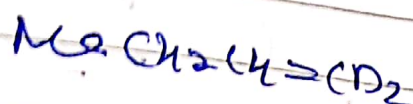


Doubt

we just have to

1,1-elimination pd-1. \rightarrow $\text{MeCH}_2\text{-CH=CH}_2$

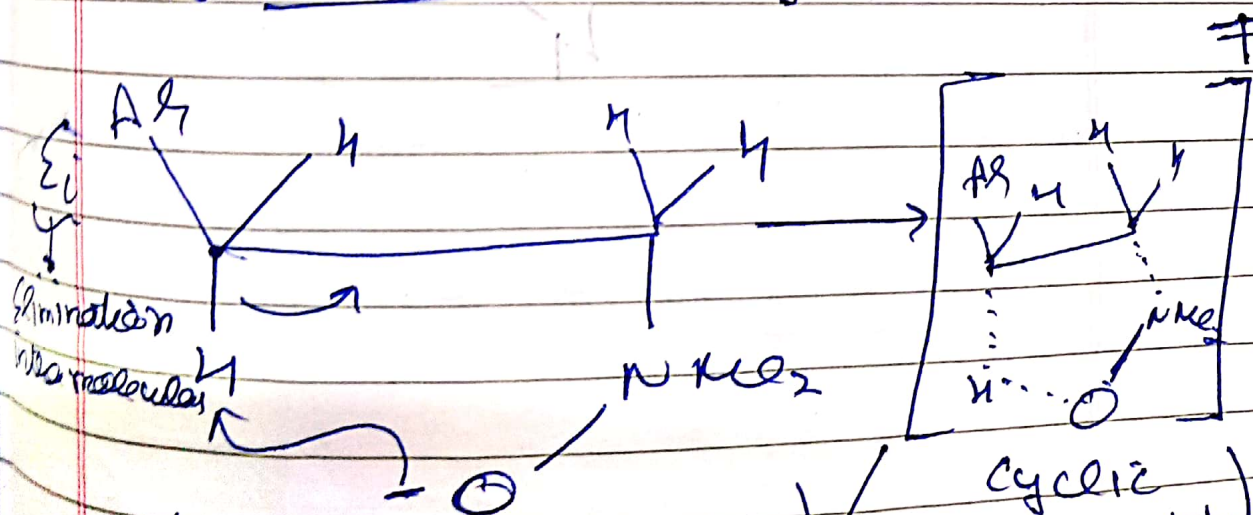
Σ_2 elimination



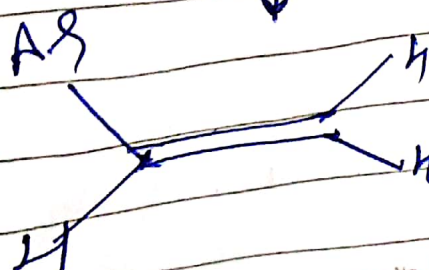
\rightarrow 1,1-elimination: $\text{MeCH}_2\text{-CO=CH}_2$

Σ_2 " : $\text{MeCH}_2\text{-CO=CH}_2$

Pyrolytic Syn Elimination



(Syn Stereoselective) (transition state)
(Cope Rxn)



Date ___ / ___ / ___

Pyrolysis of Xanthates

