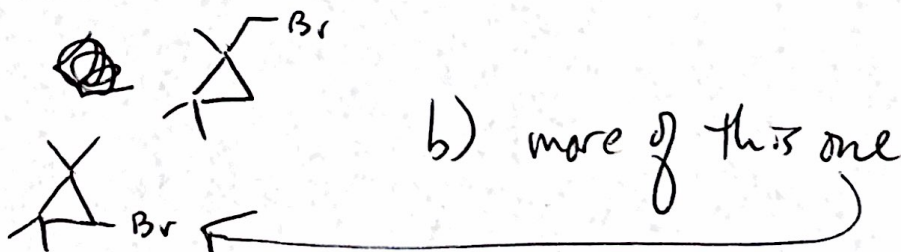
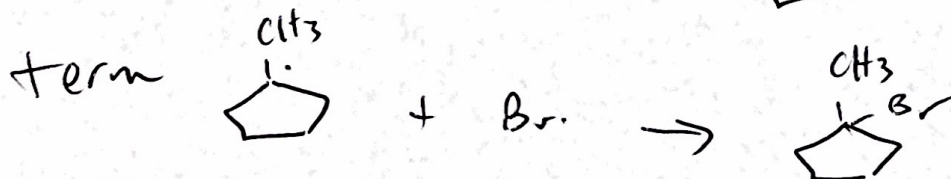
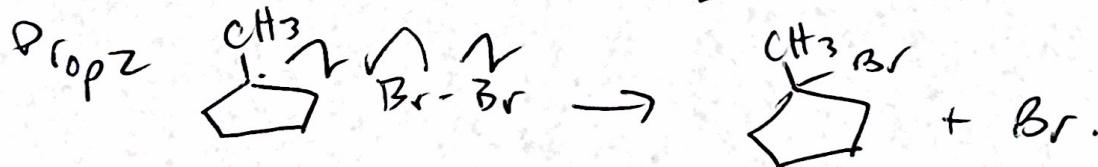
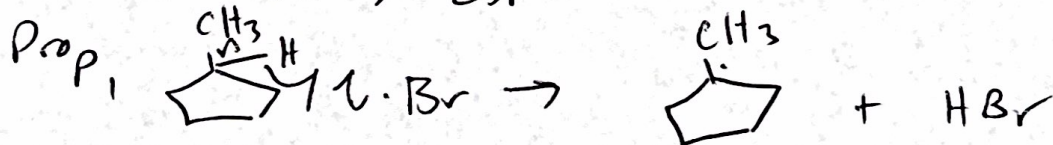
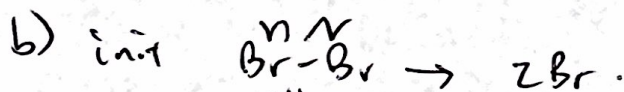
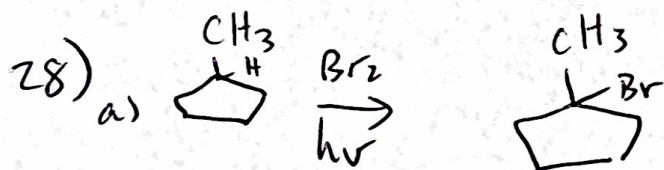
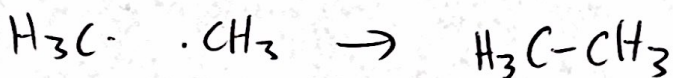
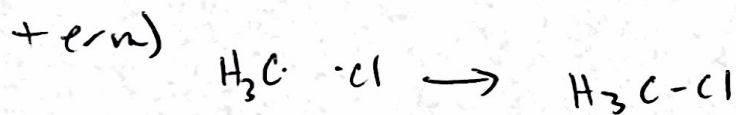
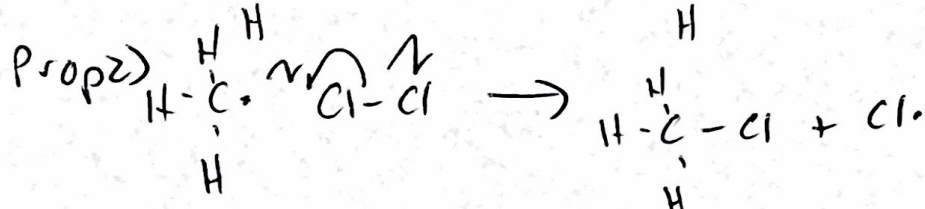
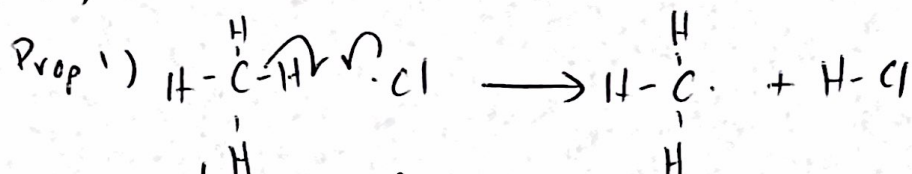
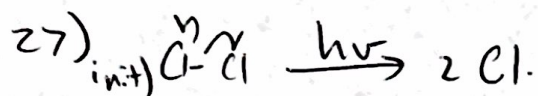
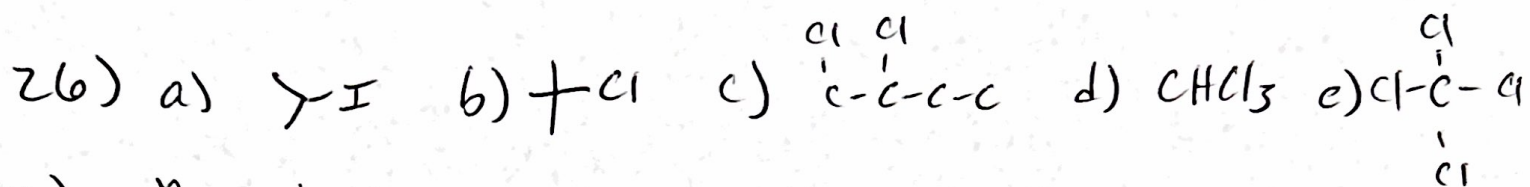
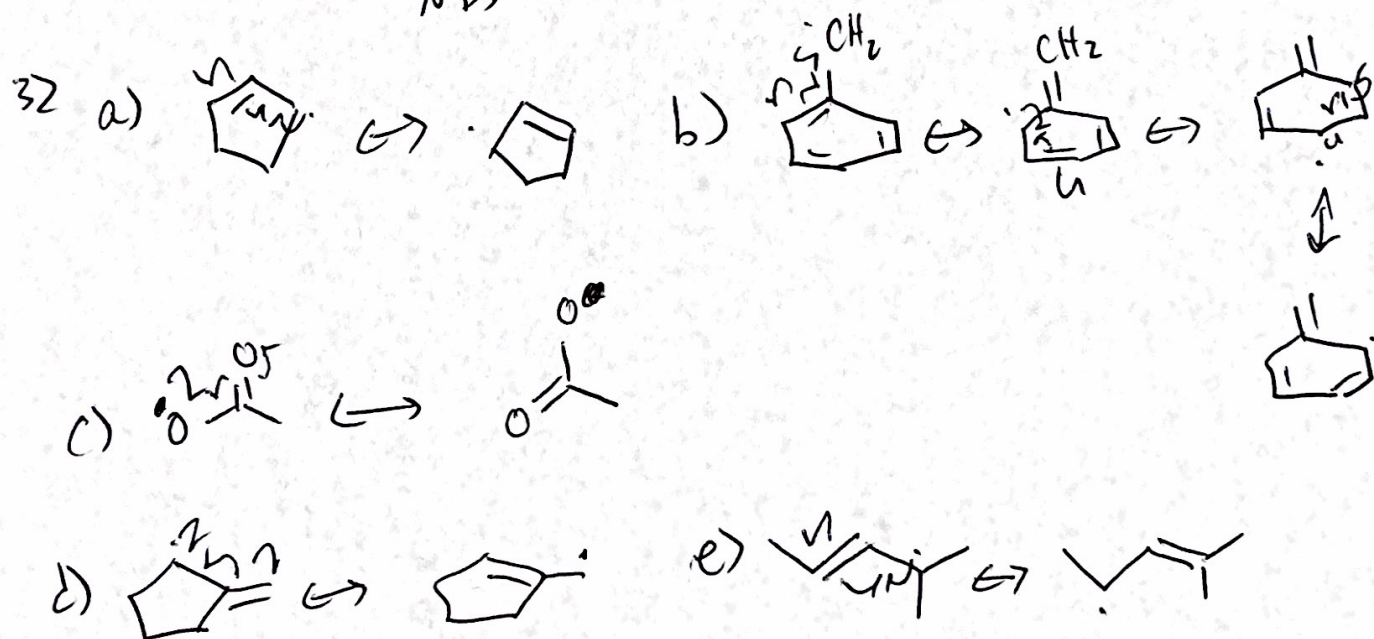
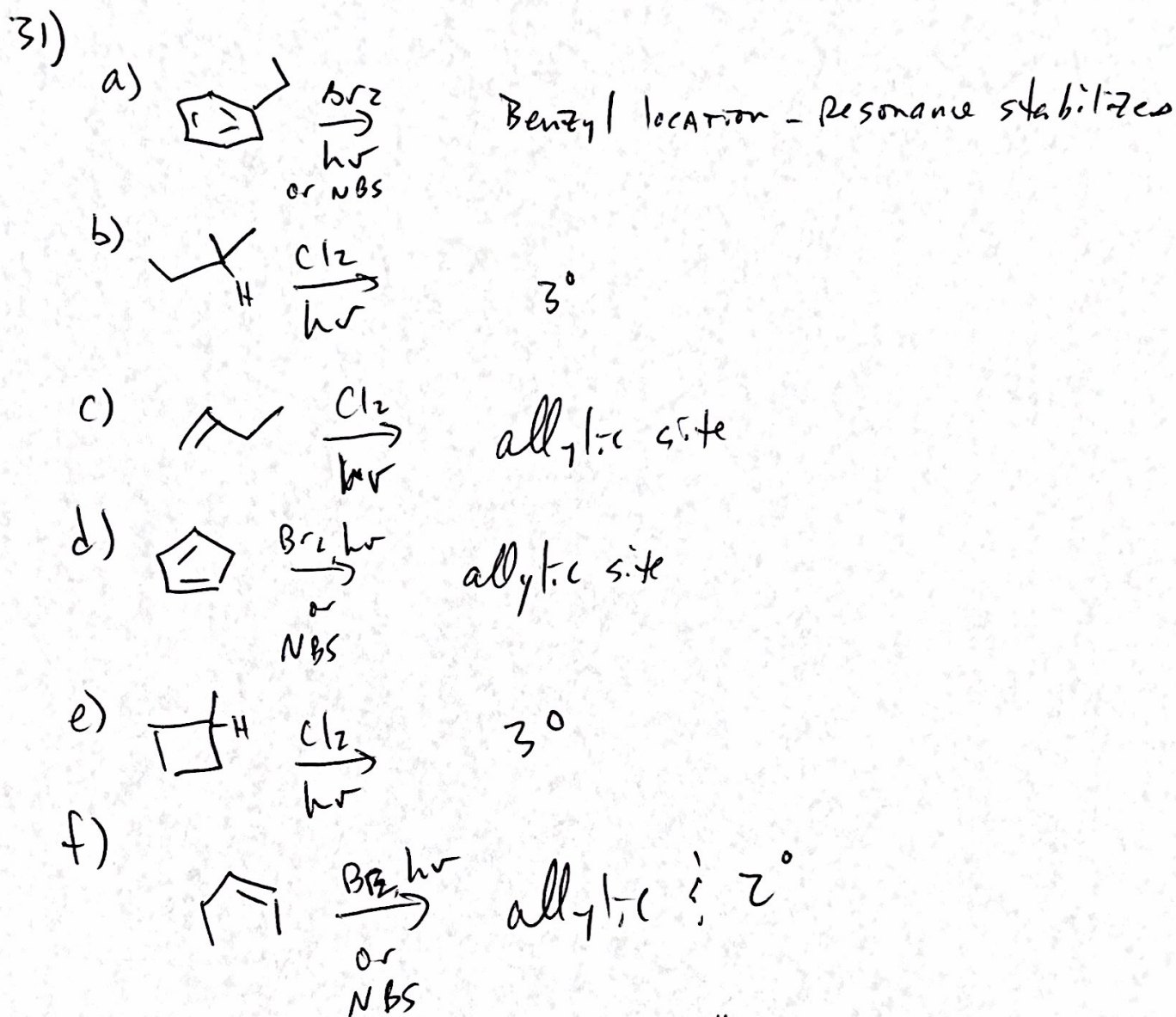
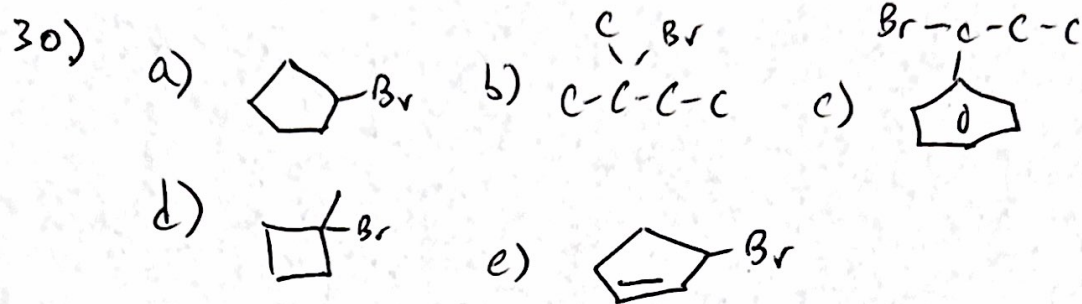
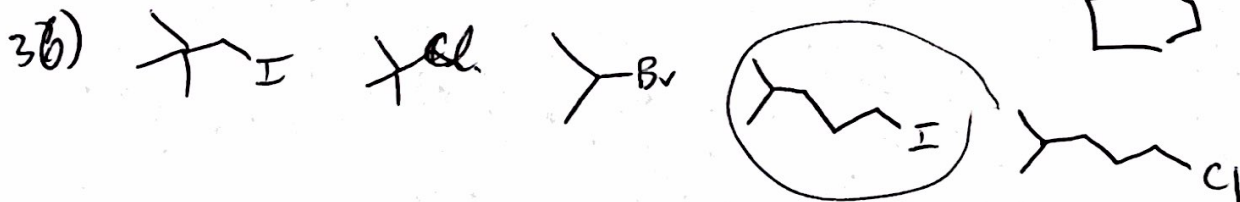
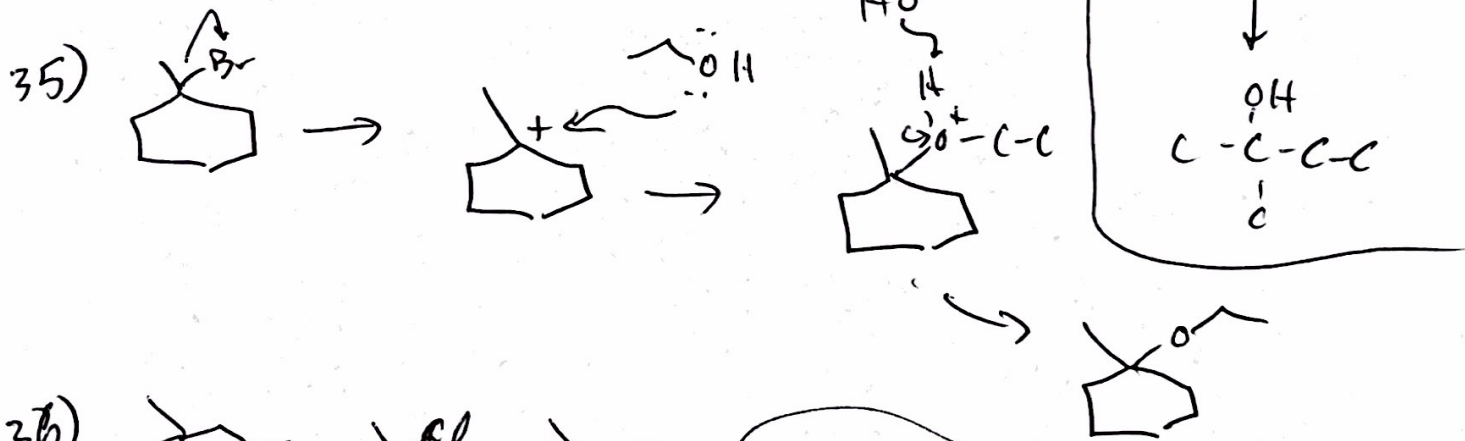
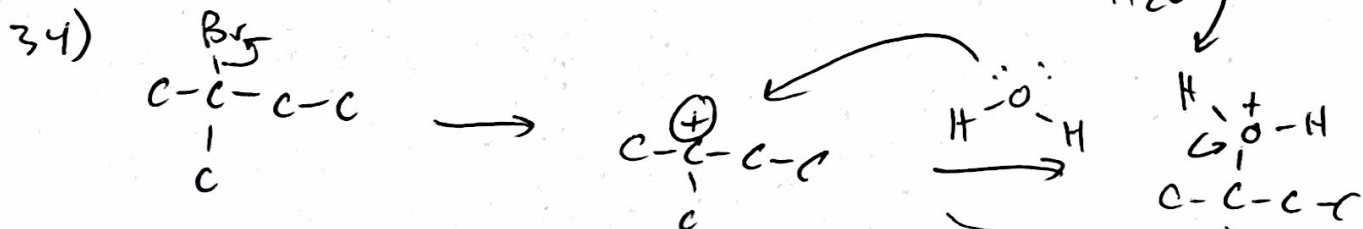
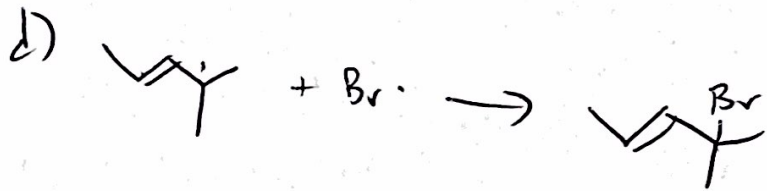
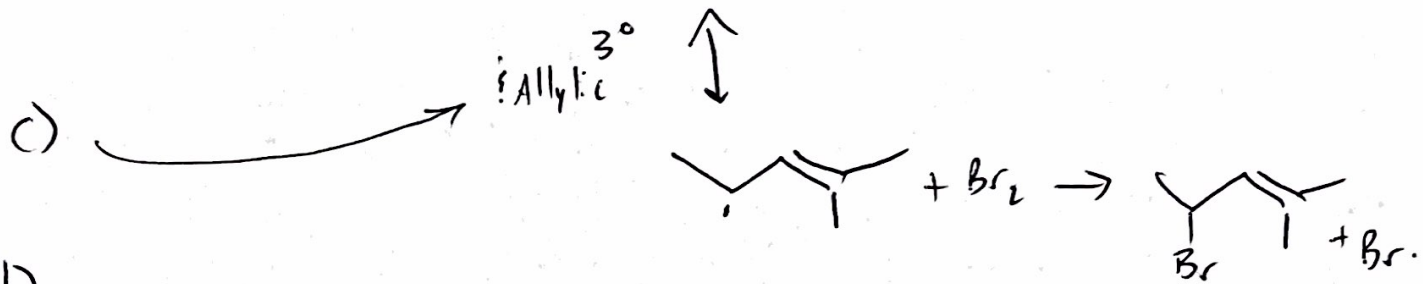
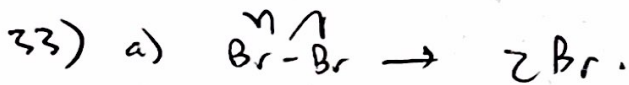


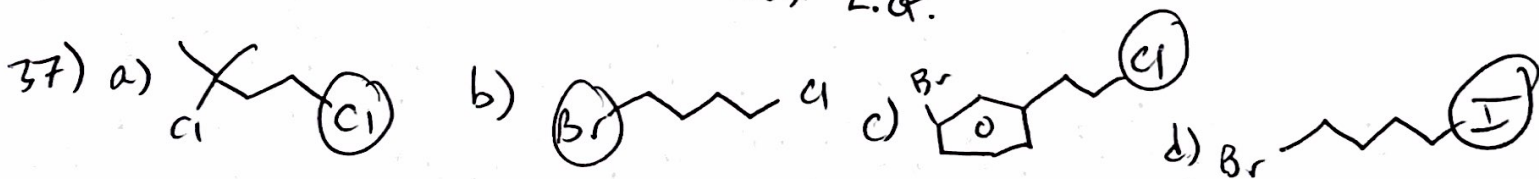
Chapter 9

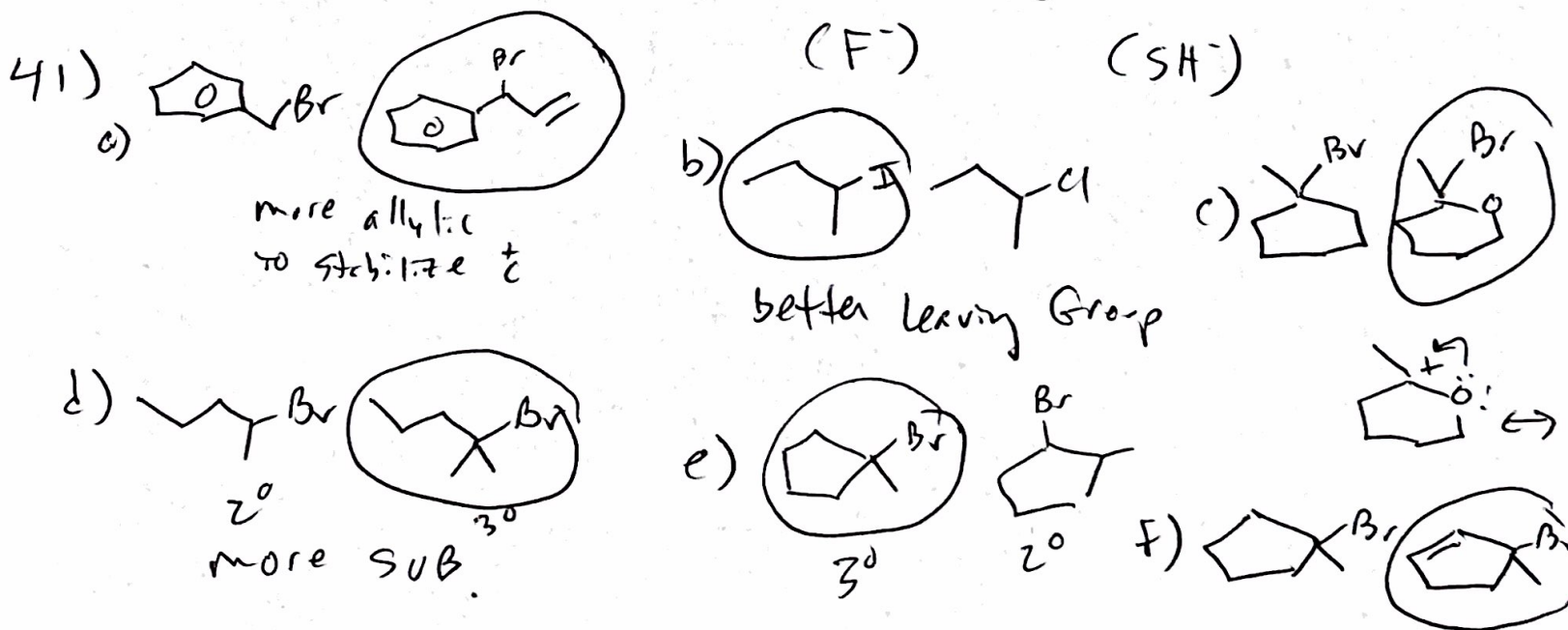
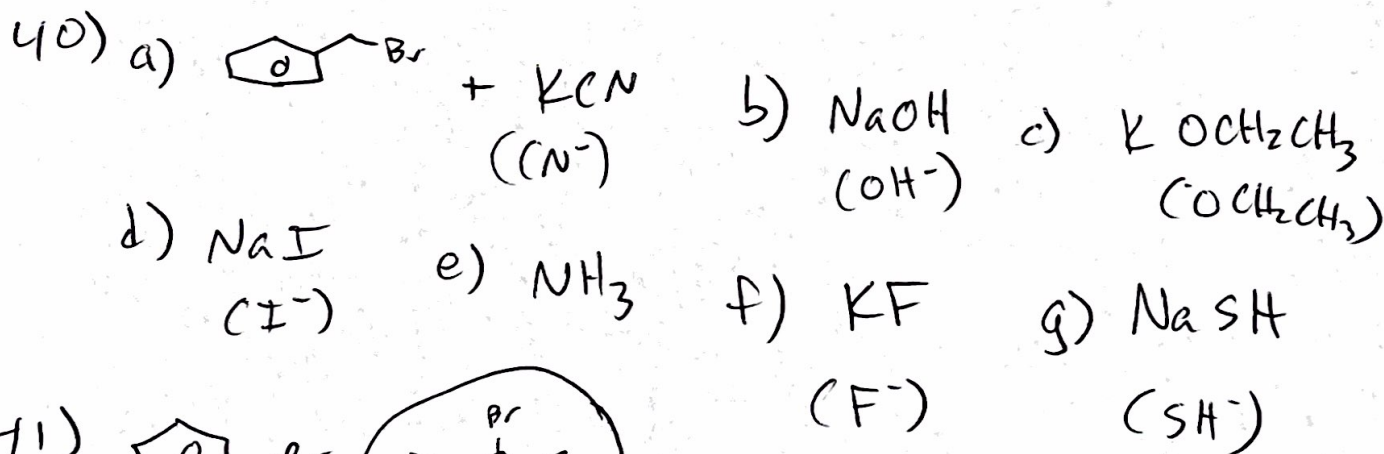
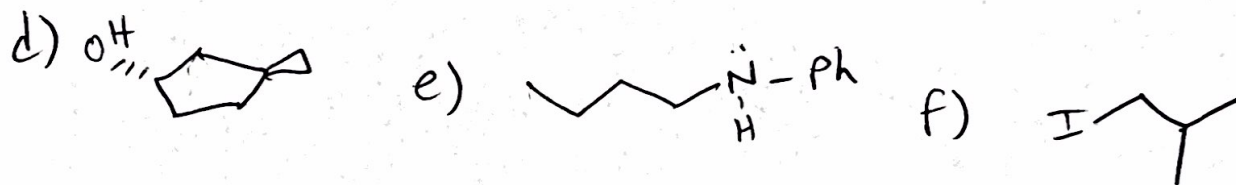
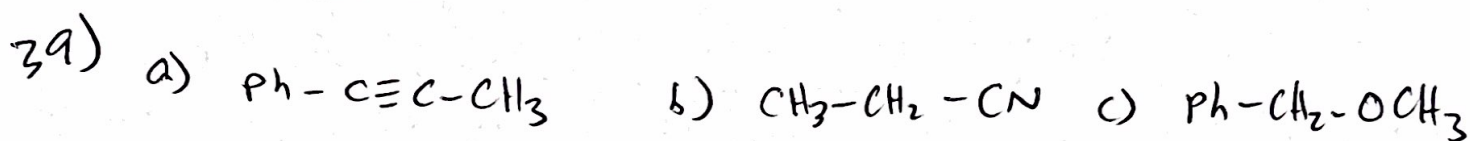
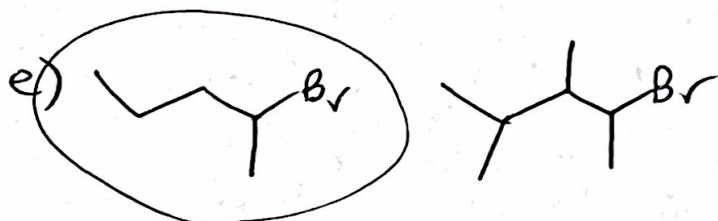
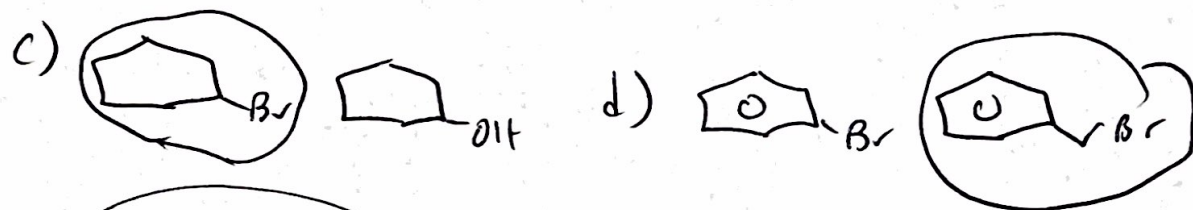
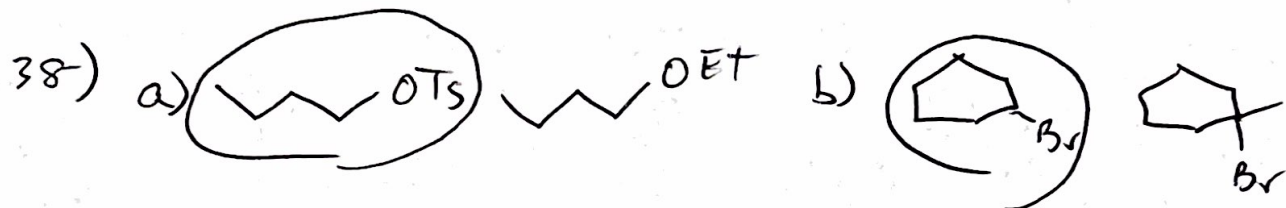


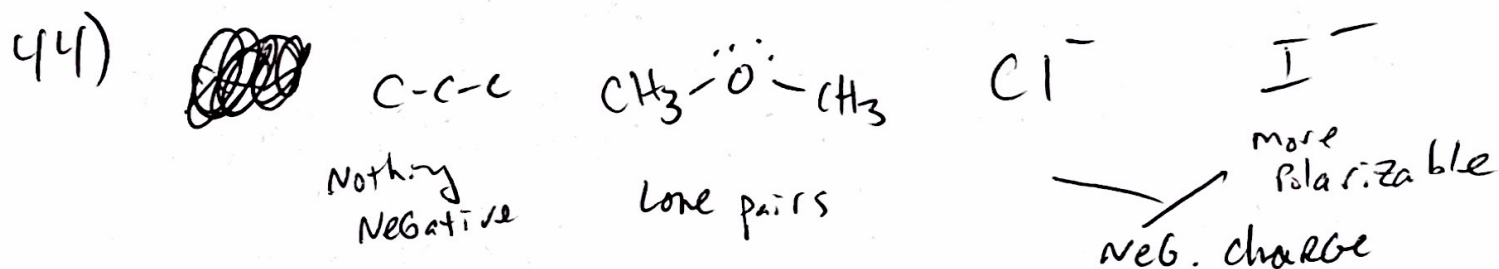
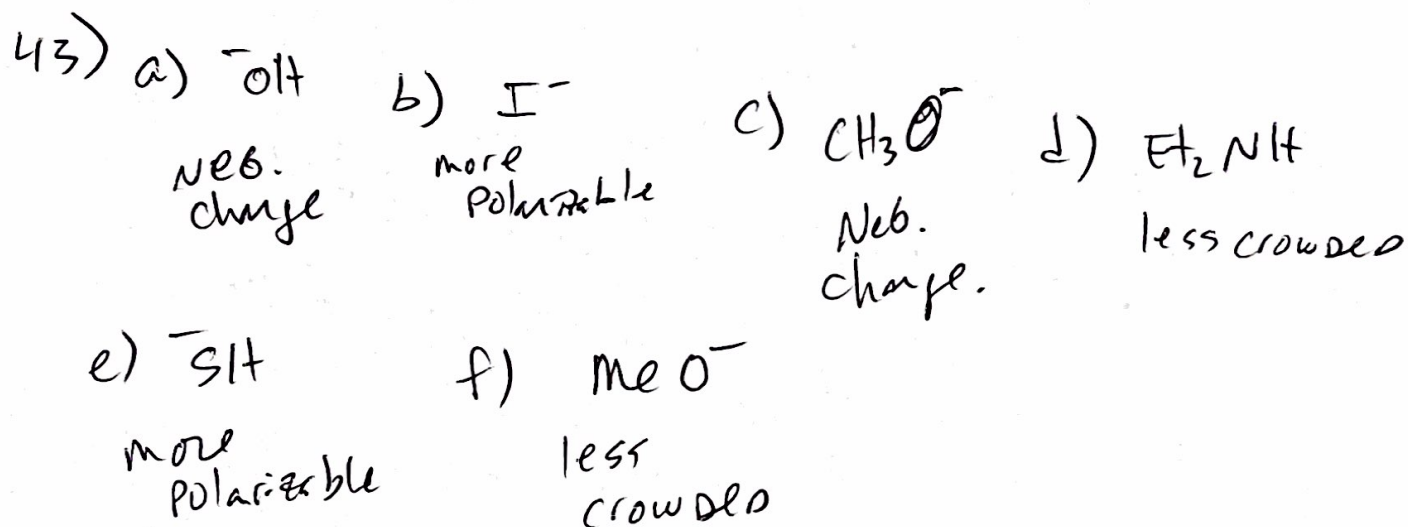
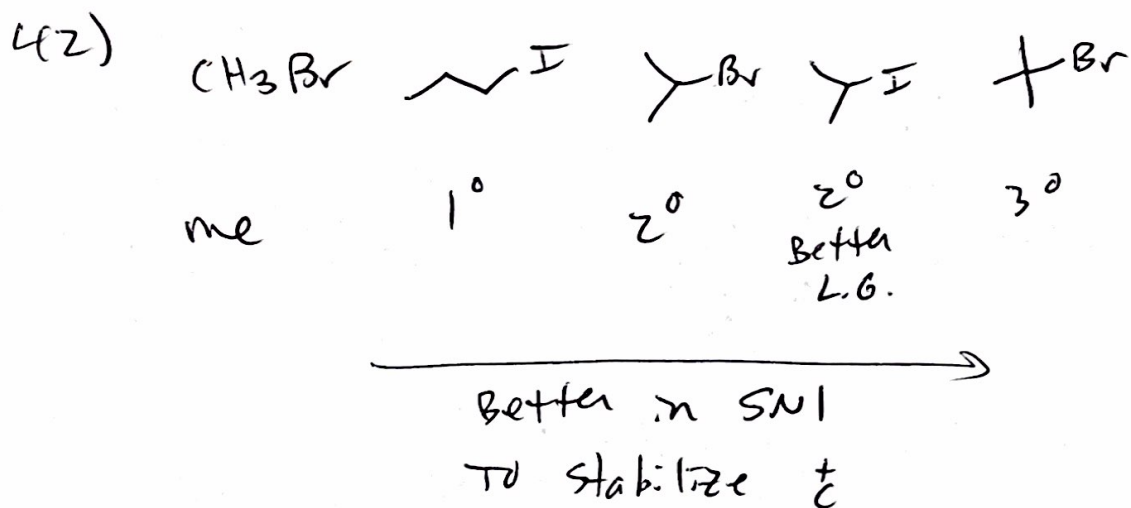


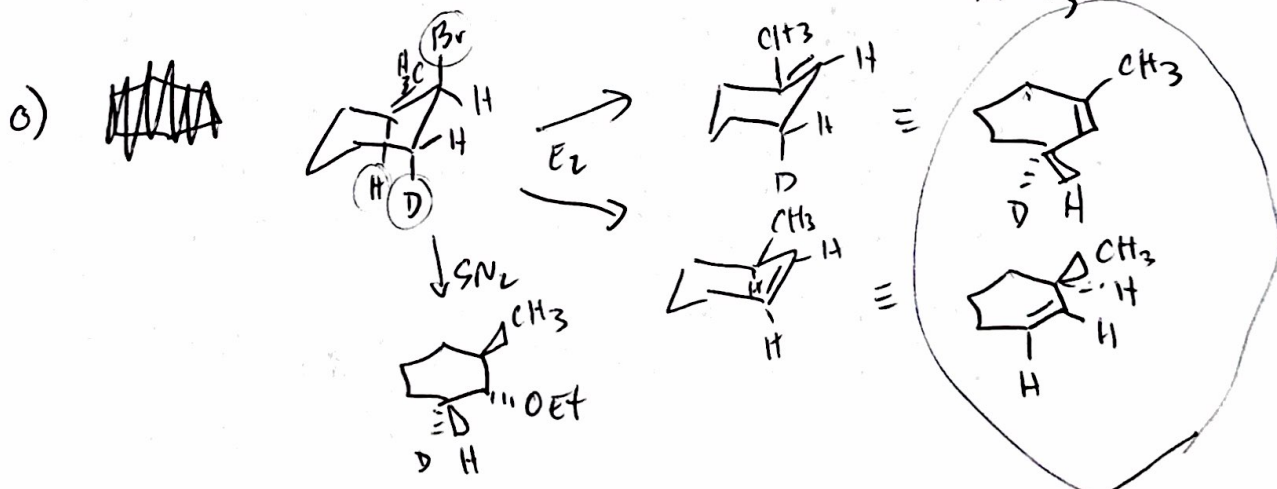
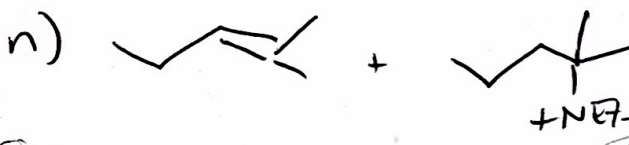
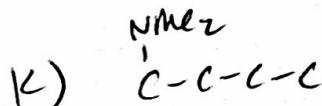
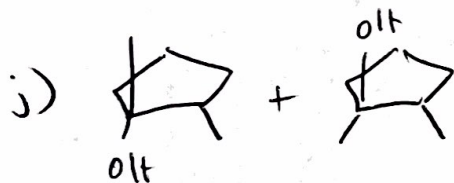
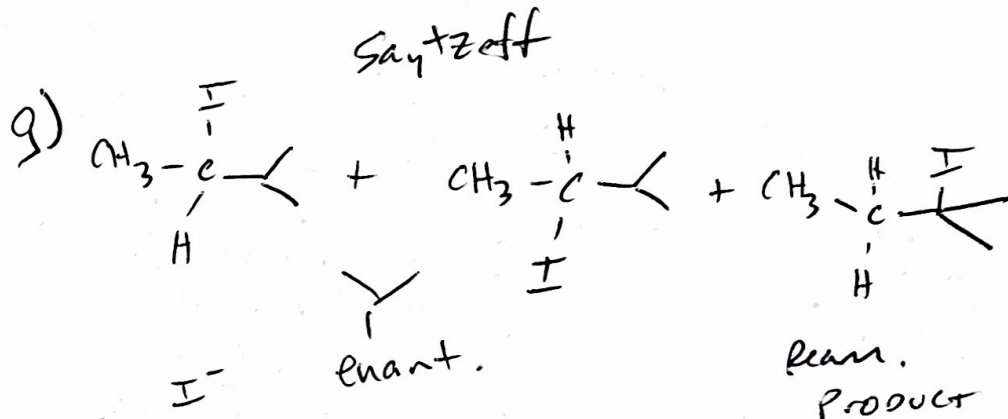
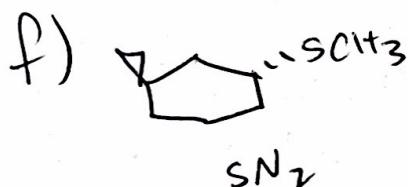
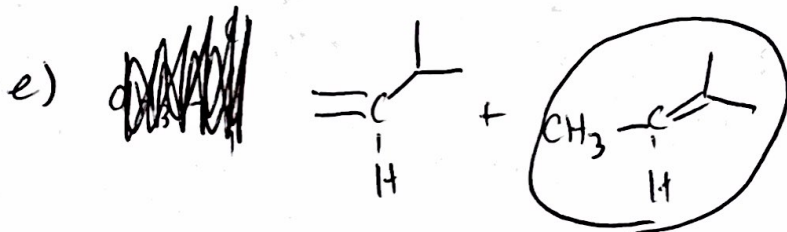
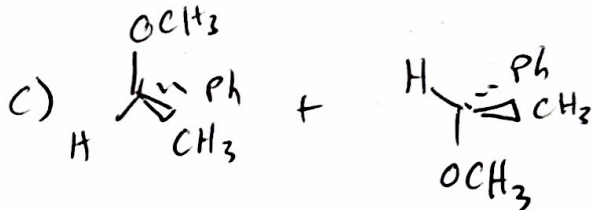
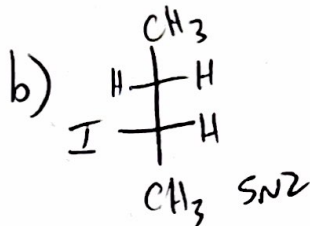
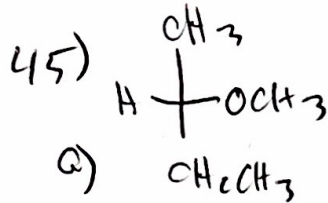


least crowded,
BEST L.G.



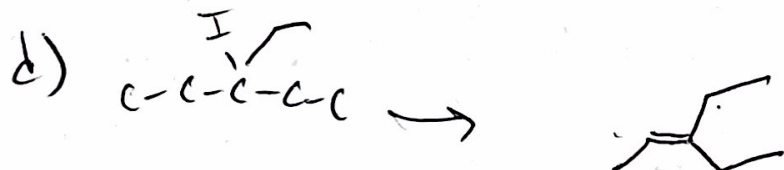
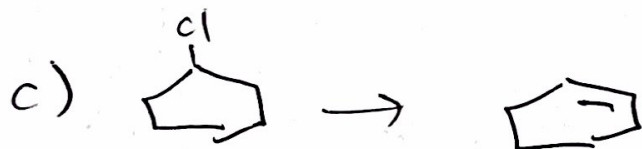
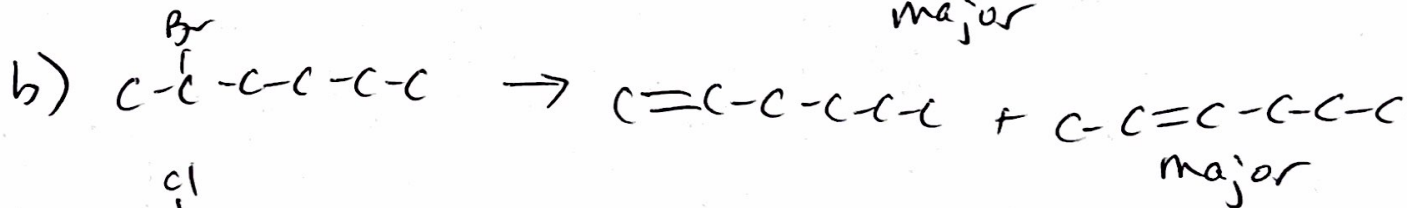
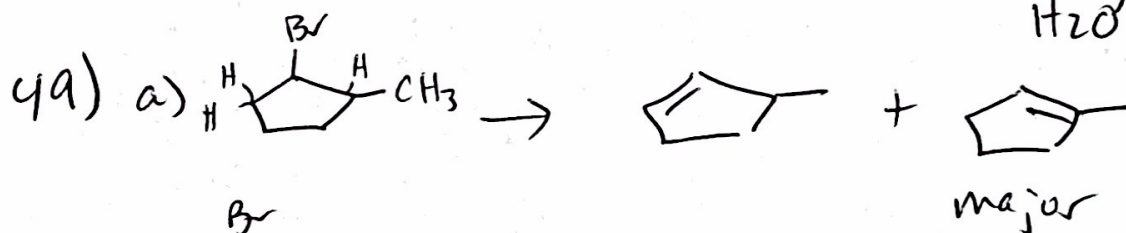
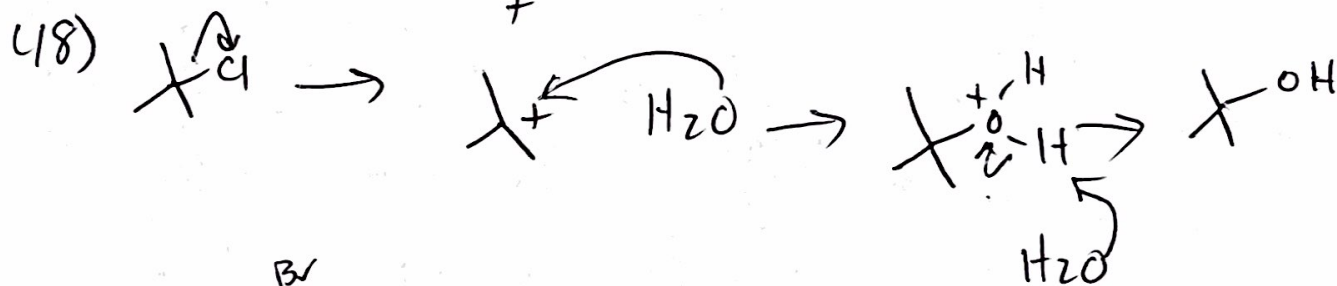
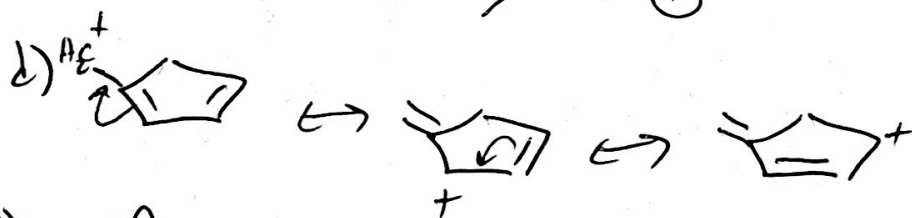
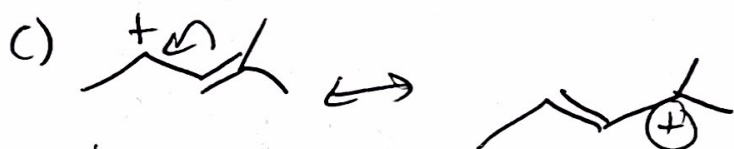
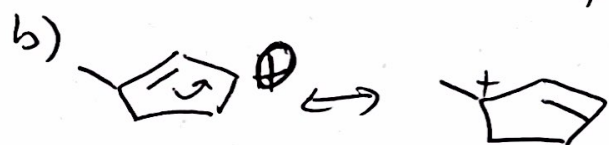
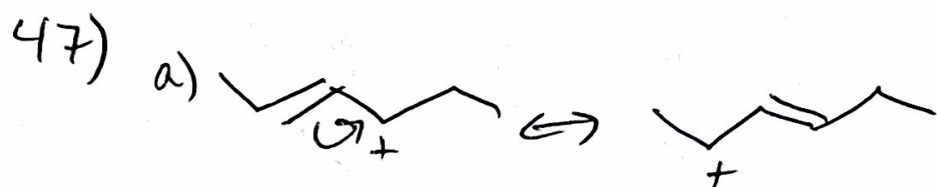
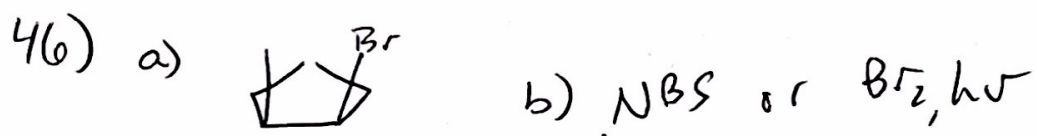


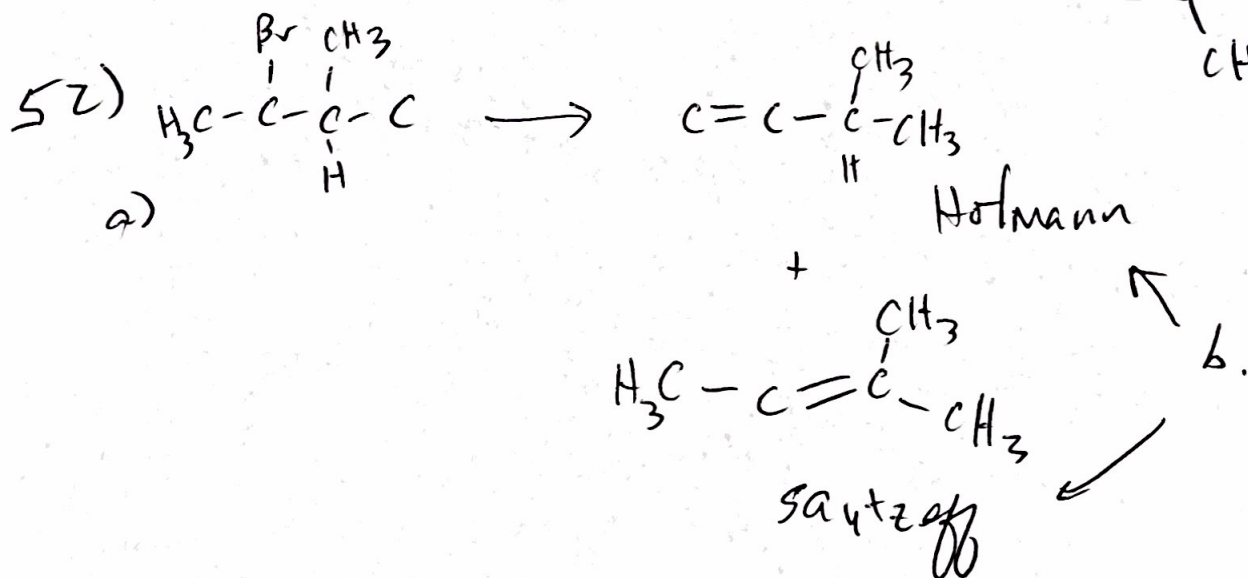
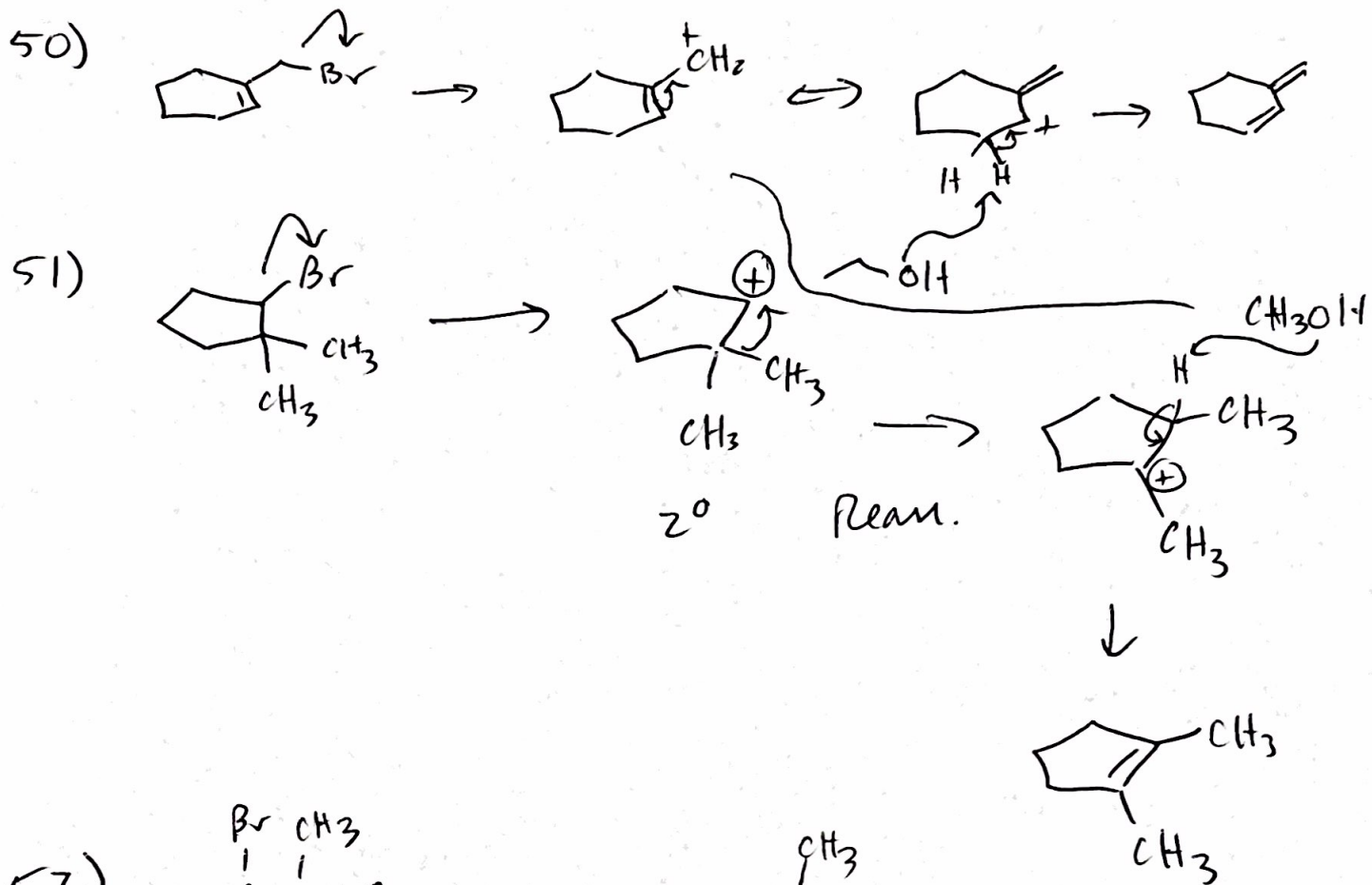




p) $E2$ more likely than S_N2 , so

q) (R)-2-butyl Bromide



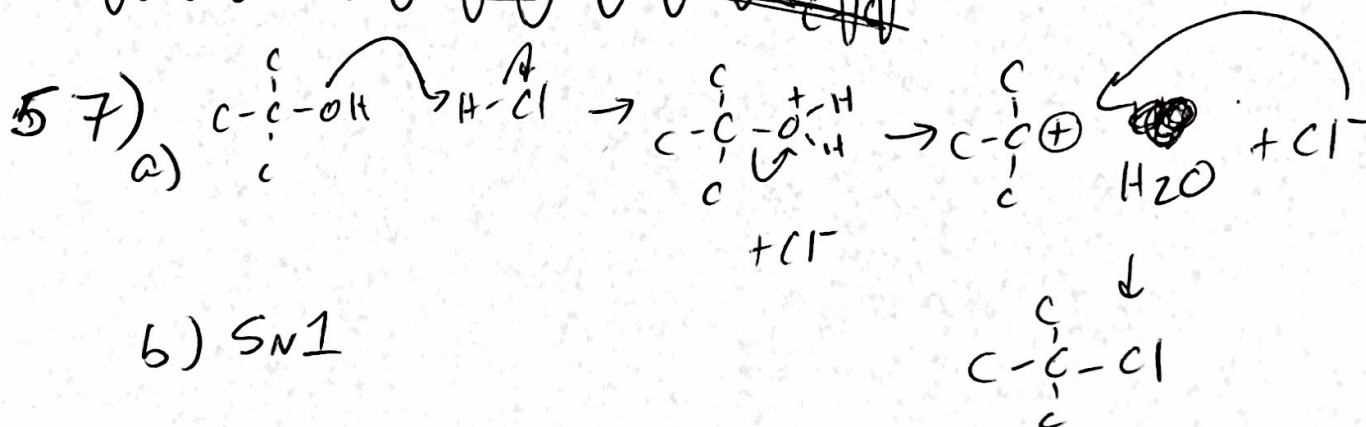
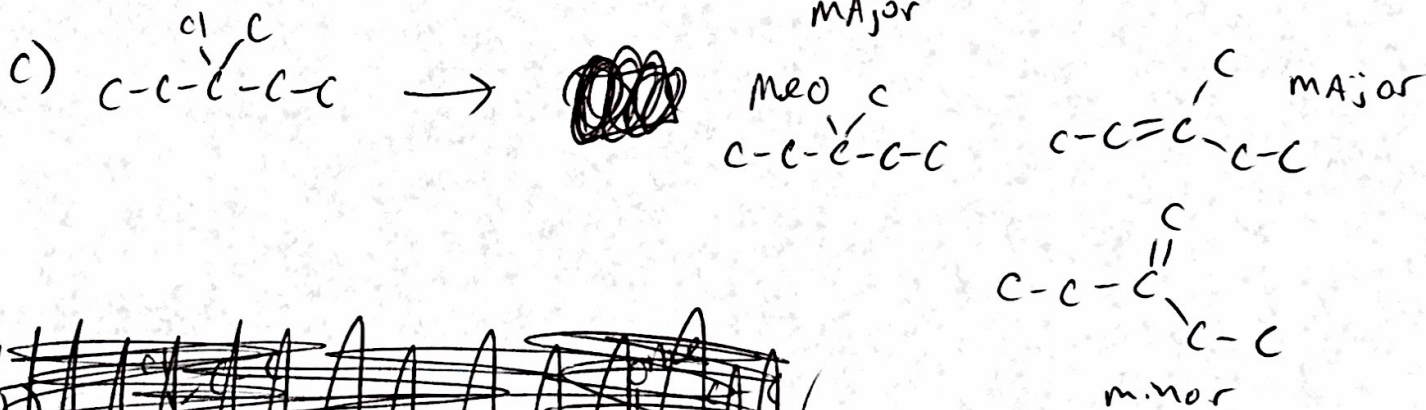
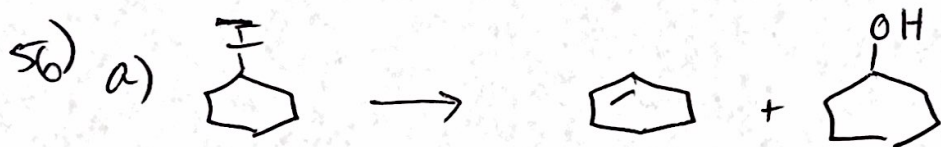
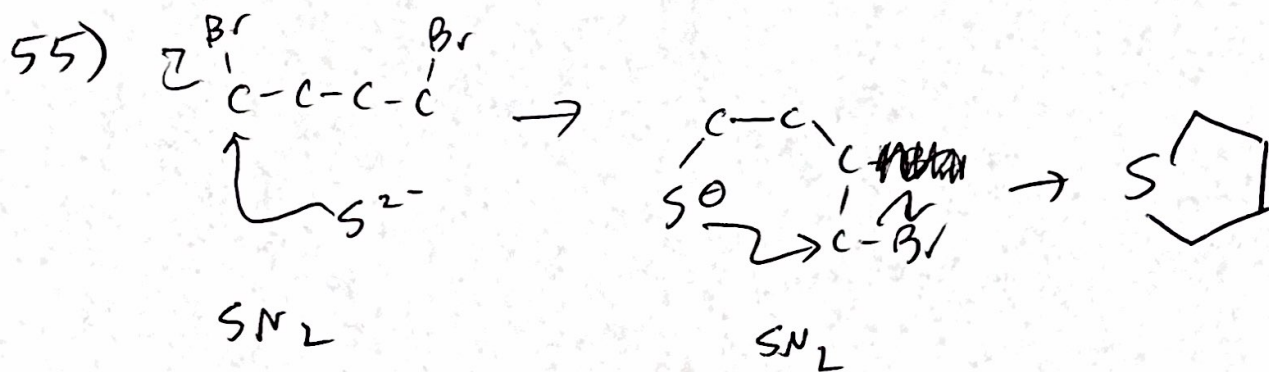


c) small $^-\text{OCH}_3$
or NaOCH_3

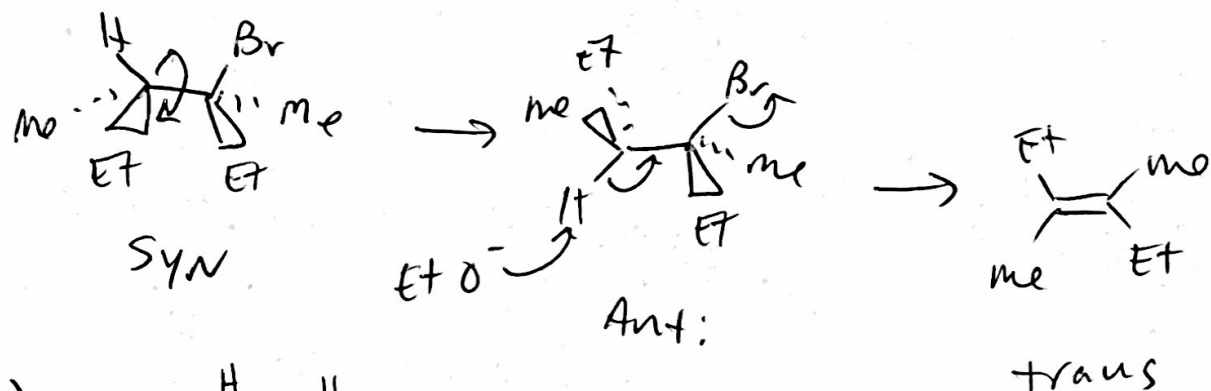
d) large $^-\text{O}^-\text{K}^+$

53) a) $\text{S}_\text{N}1$ b) $\text{S}_\text{N}2$ c) $\text{S}_\text{N}2$ d) $\text{S}_\text{N}2$
e) $\text{S}_\text{N}1$ f) $\text{S}_\text{N}1$

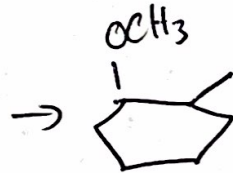
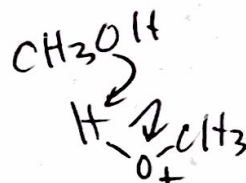
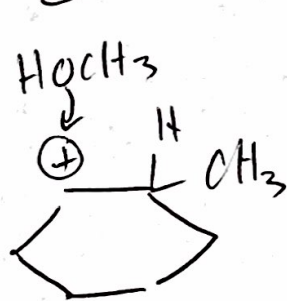
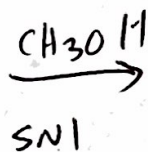
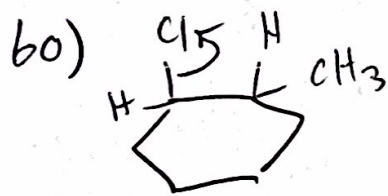
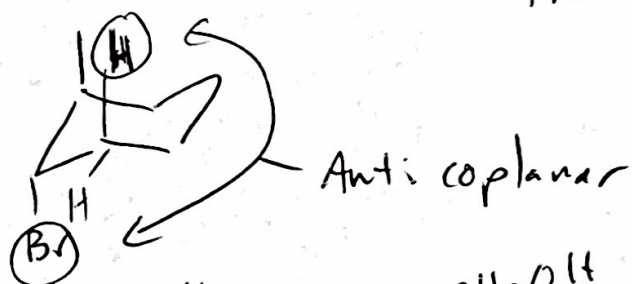
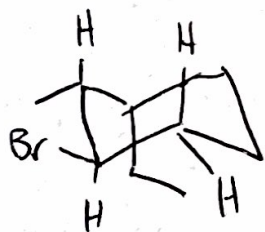
- 54) a) S_N1 b) S_N2 c) S_N2
 d) S_N1 e) S_N1



58) The H & the Br eliminate better if anti-coplanar



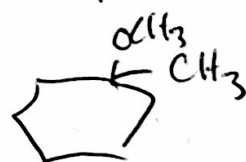
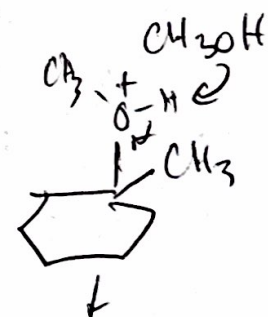
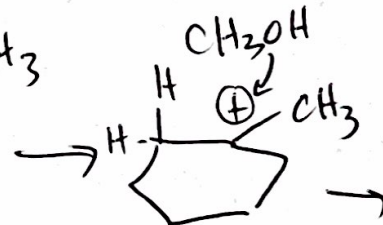
59)



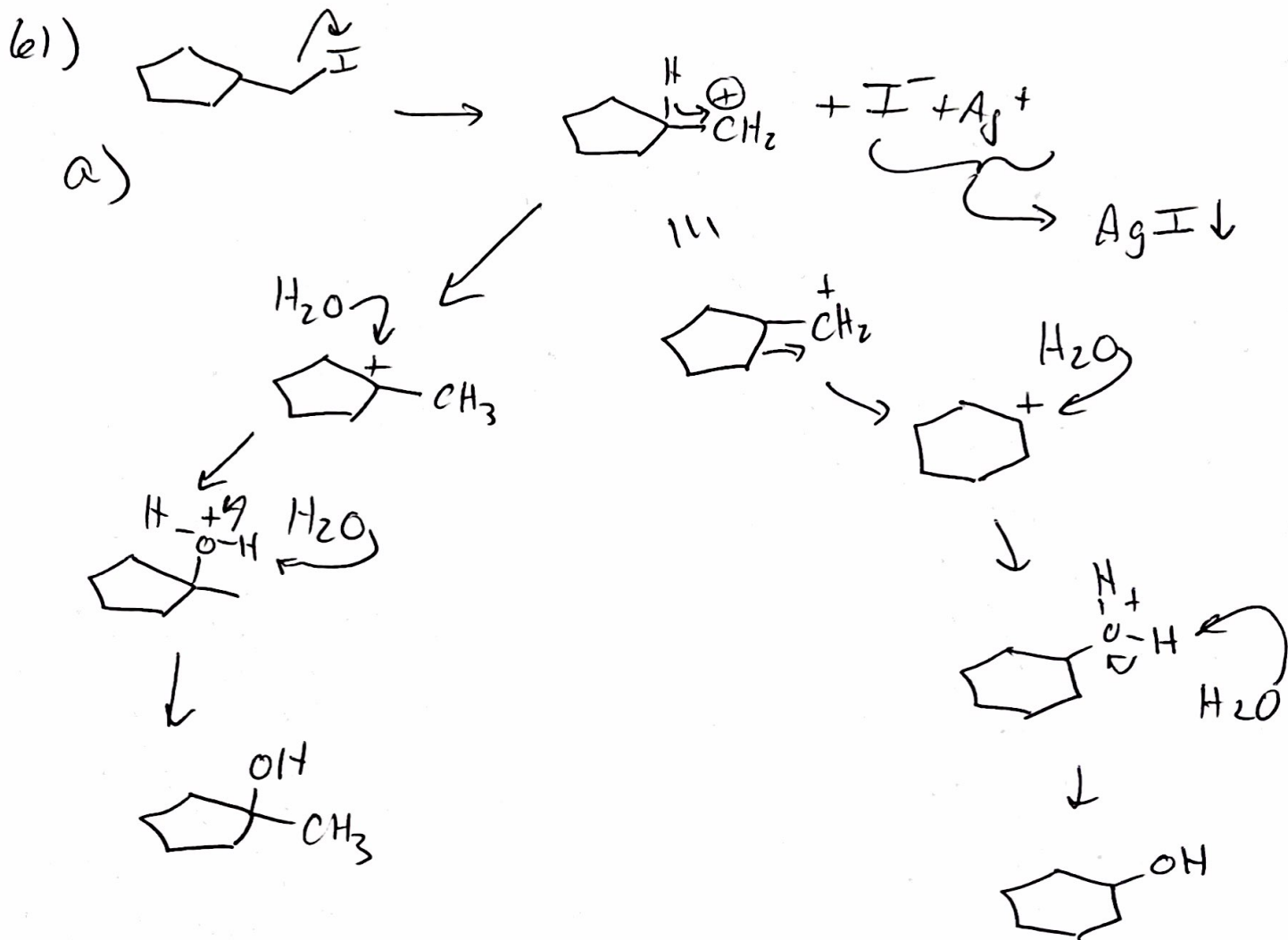
a)



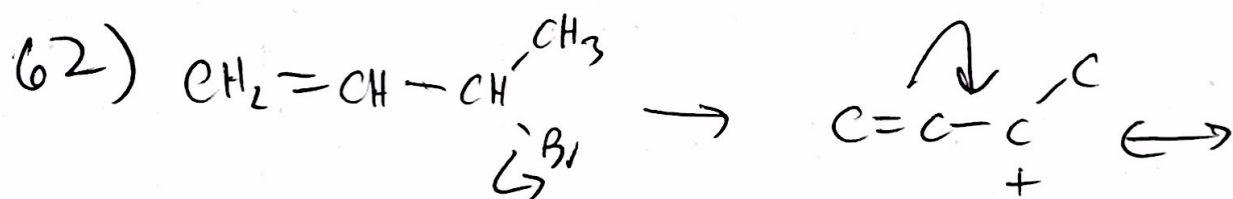
REARR.



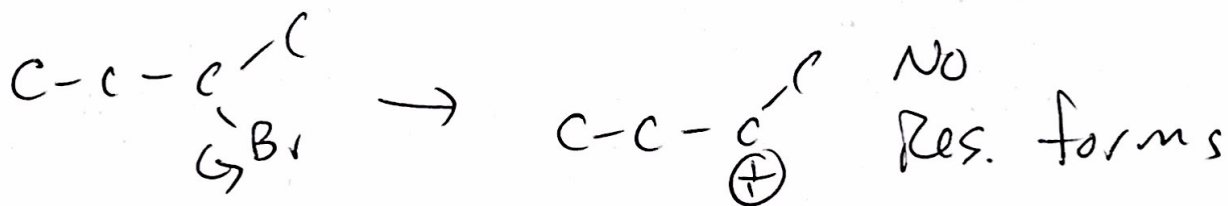
b) 2° carbocation becomes 3° carbocation

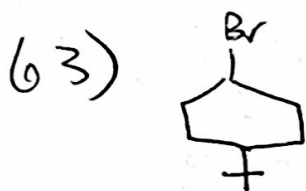


b) 1st order (makes C^+)

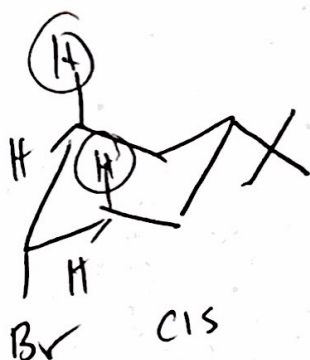


allylic carbocation, resonance stabilizes



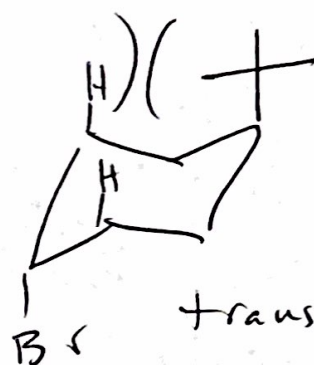


Cis



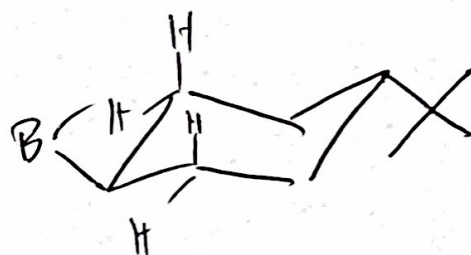
Good
sterics
w/ +Brn EQUAT.

two H's are
Anticoplanar

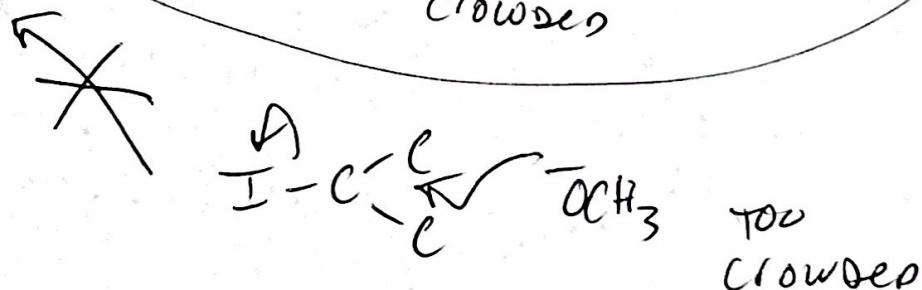
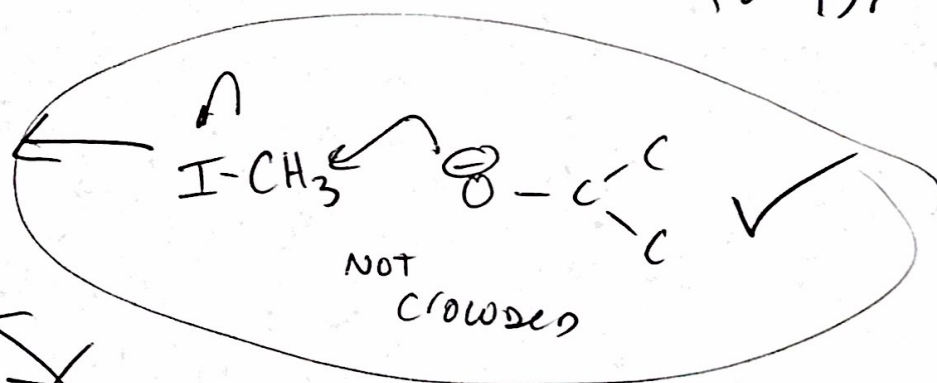
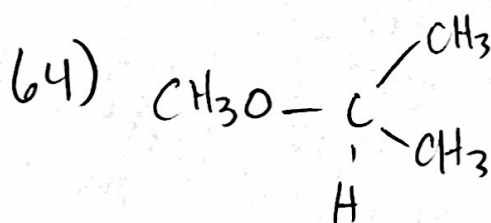


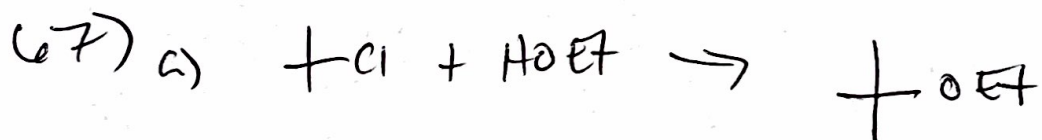
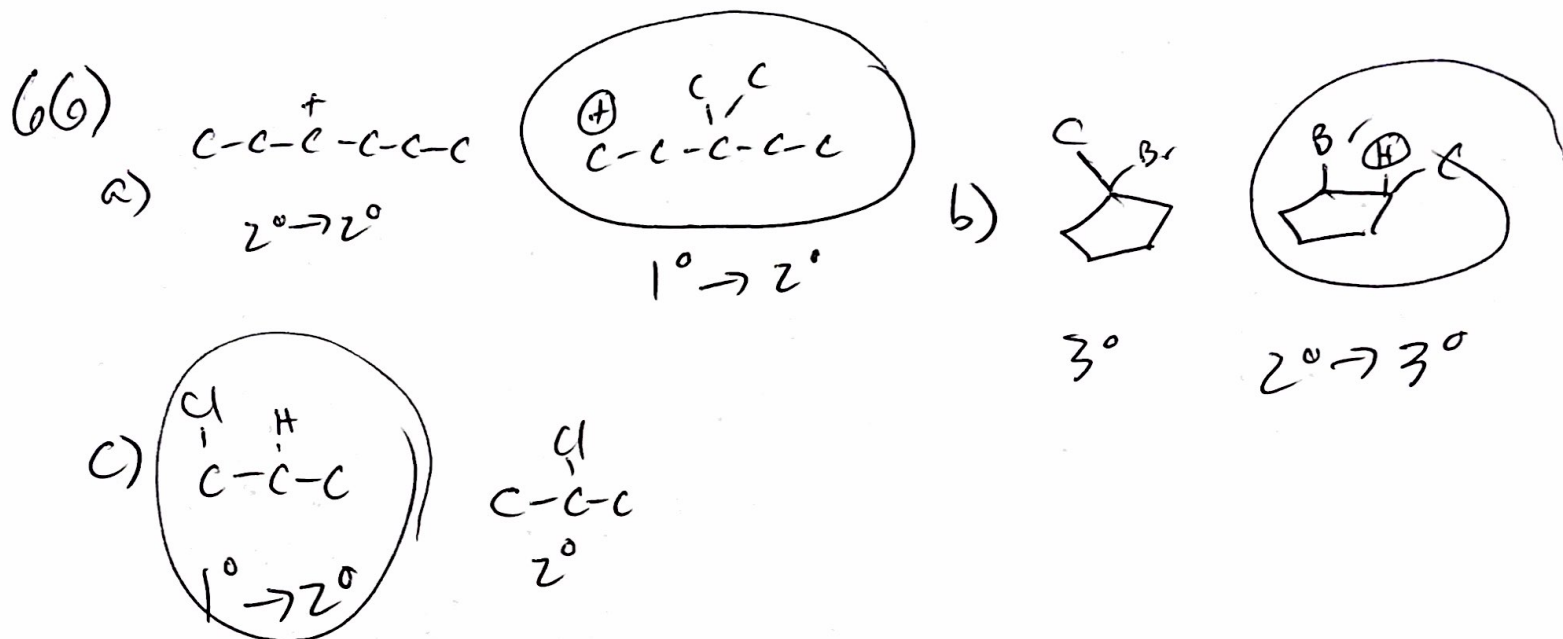
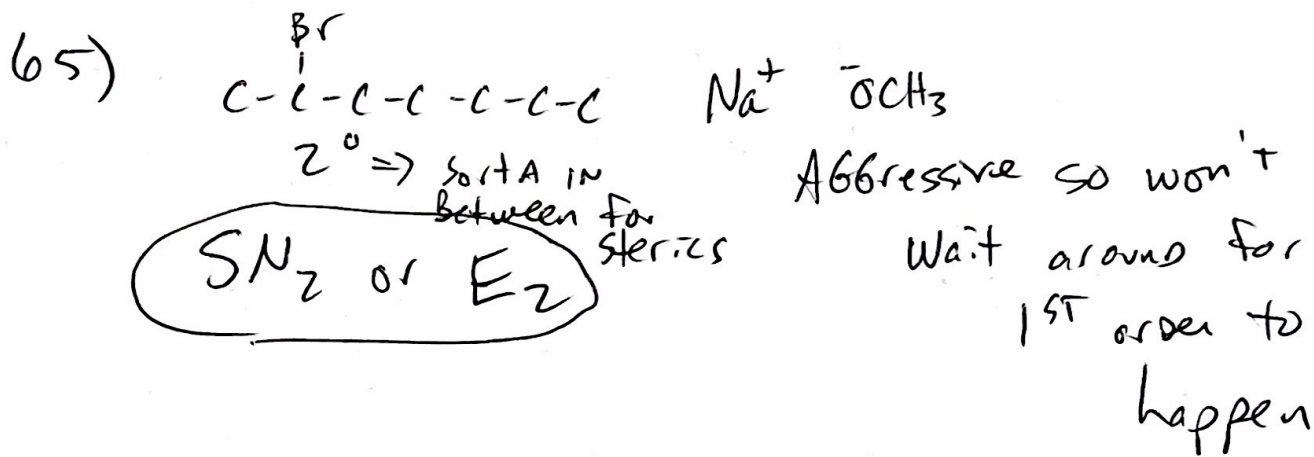
BAD sterics
w/ +Brn AXIAL

This would
chair flip



Now, no H's
are Anticoplanar
to Br

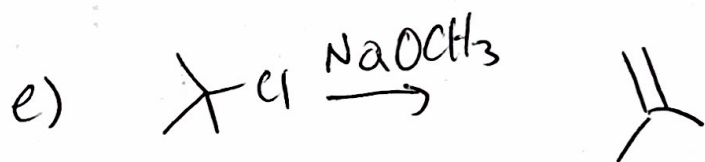




b) SN_1

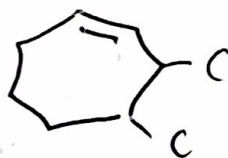


d) E_1

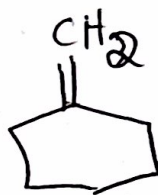
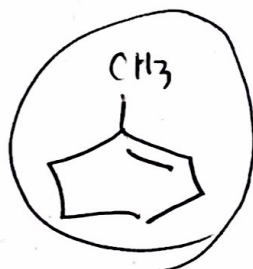
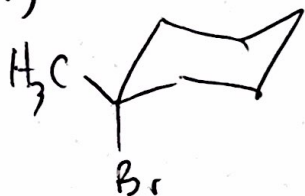


f) E_2

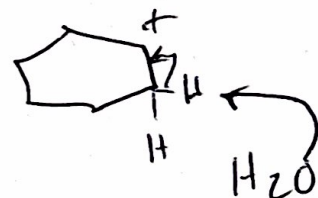
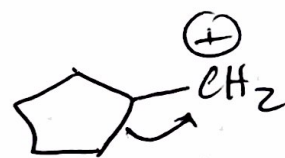
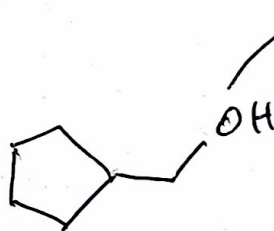
68)



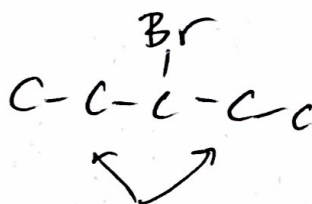
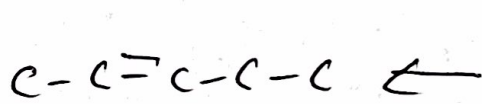
69)



70)

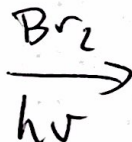


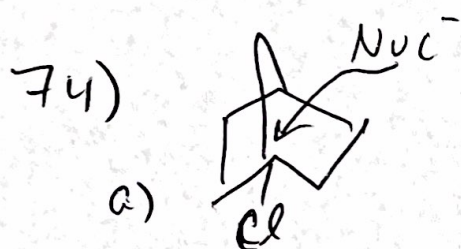
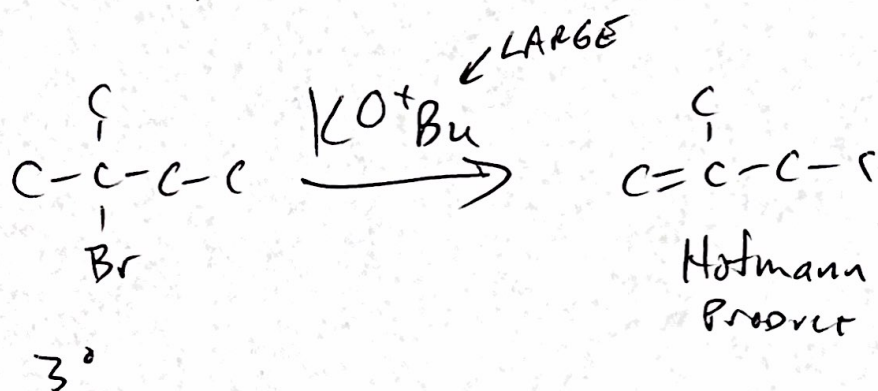
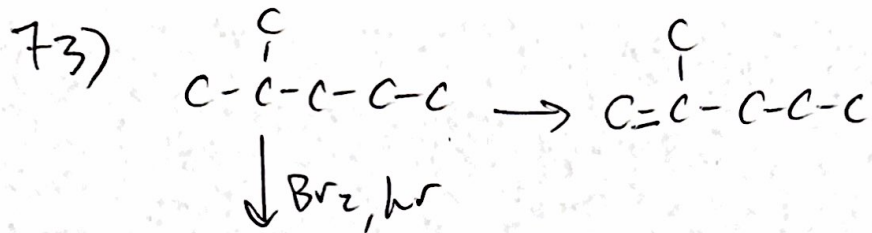
71)



Doesn't matter
which H' pulls off

72)





Cannot invert (Walden inversion)

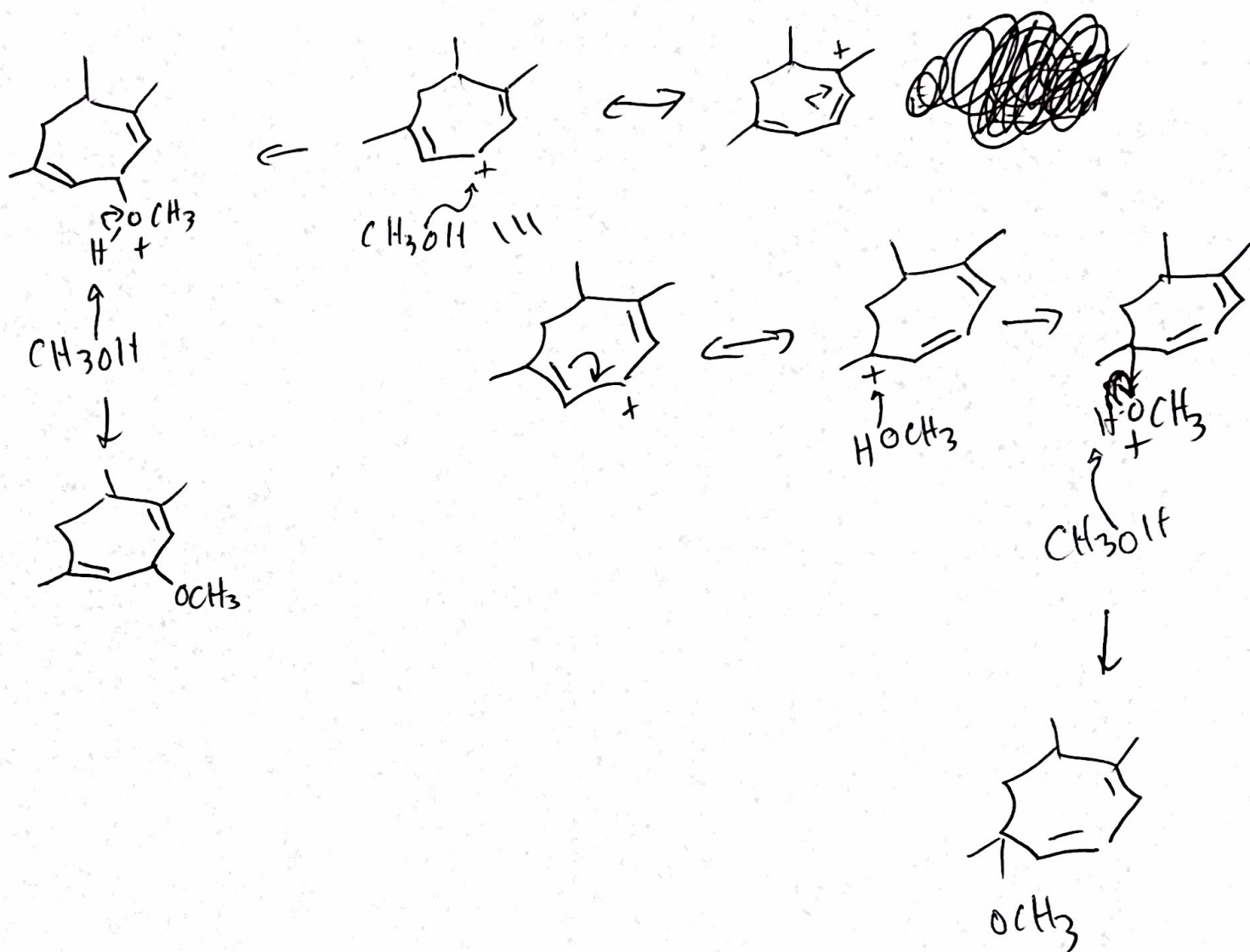
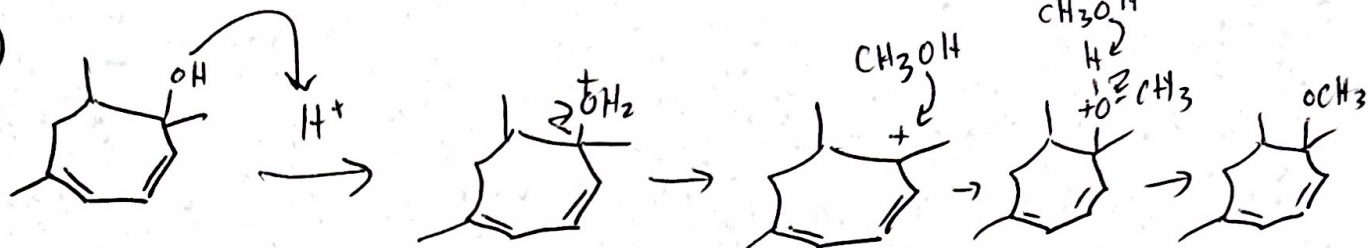
b) NO H is Anti coplanar

75) a) E2 b) SN1 c) E2 d) SN2

e) E1 f) E1 g) E2 h) E1

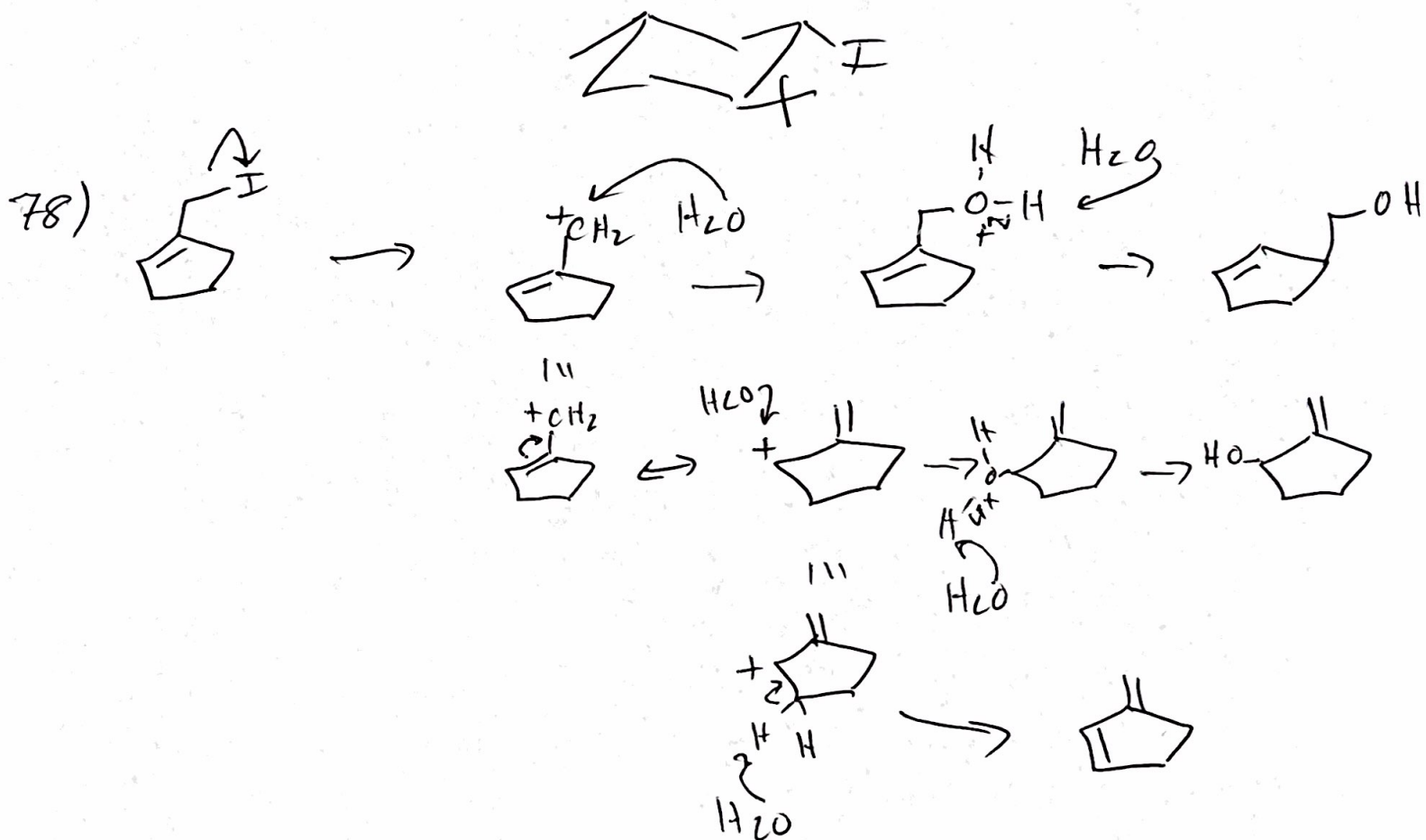
i) E1 j) SN2 k) SN2 l) SN1

76)

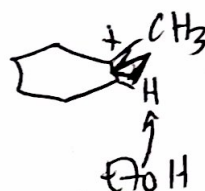
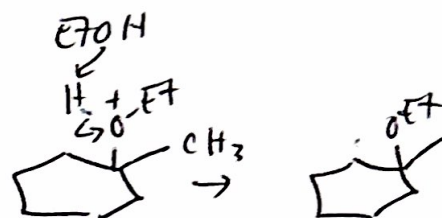
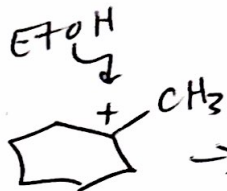


CH₃ I
 H
 TRANS
 TOO BIG TO BE AXIAL

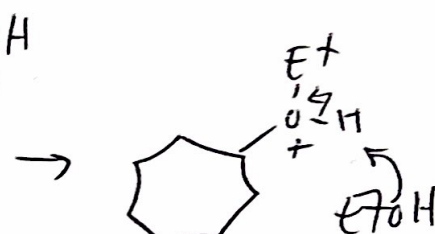
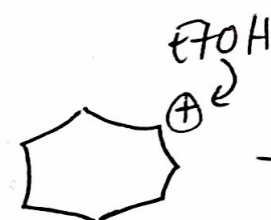
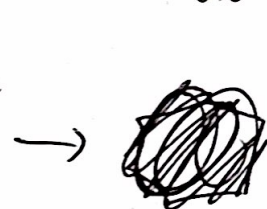
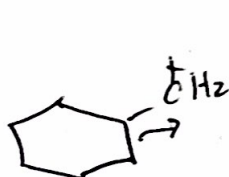
put + Bu equatorial
Then I is NOT
Anticoplanar to any H



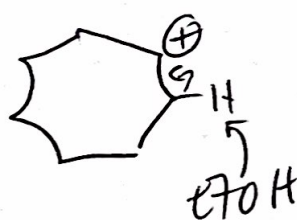
79)

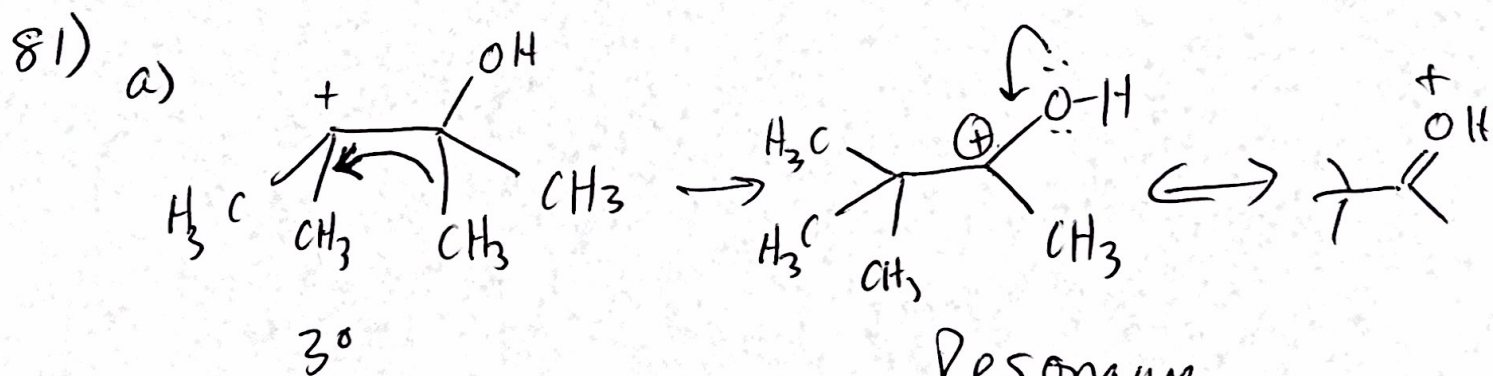
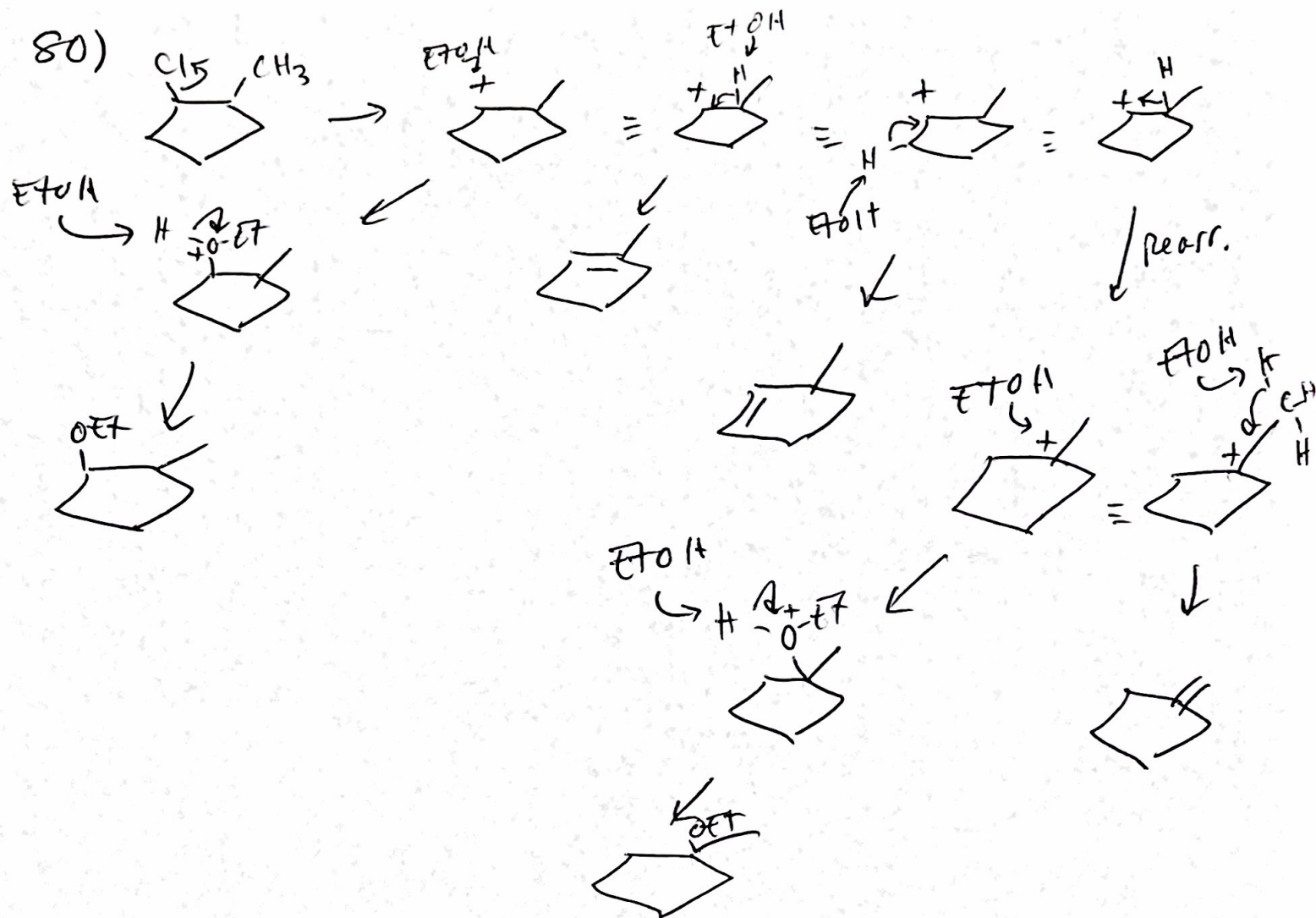


111



111





Resonance
Stabilizes
is Better