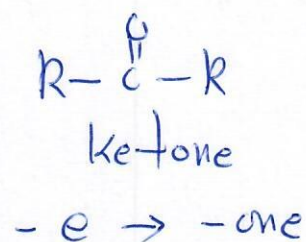
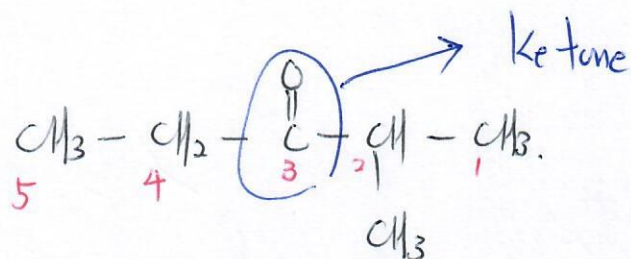


problem 19-1-1

(a)

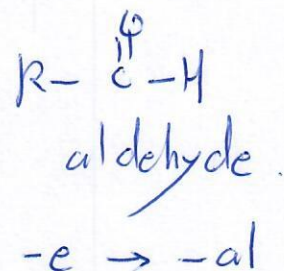
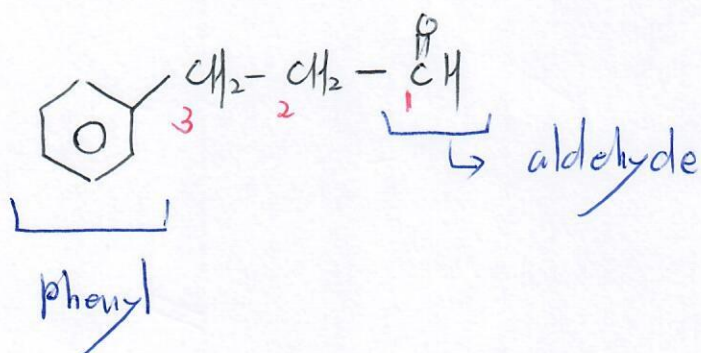


2-Methyl-3-pentanone.

or

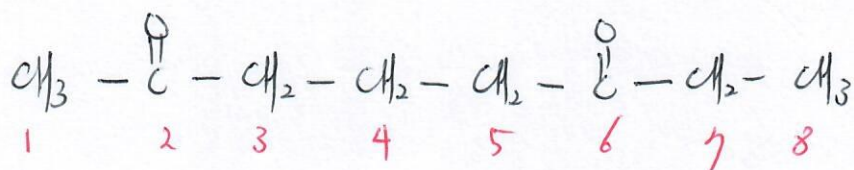
2-Methyl-pentan-3-one.

(b)



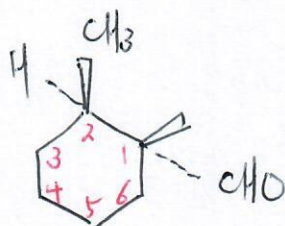
3-Phenyl propanal.

(c)



2,6-octanedione

(d)

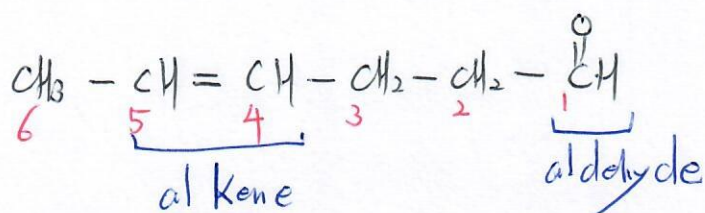


In cyclic aldehyde
→ carbaldehyde.

trans-2-methylcyclohexane carbaldehyde

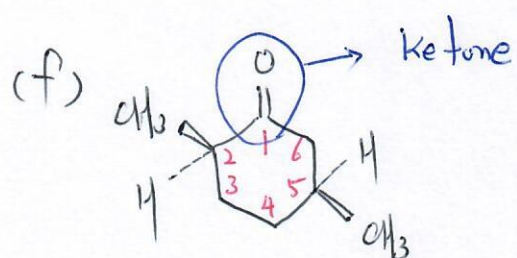
Problem 19-1-2

(e)



Hexane → Hexene.

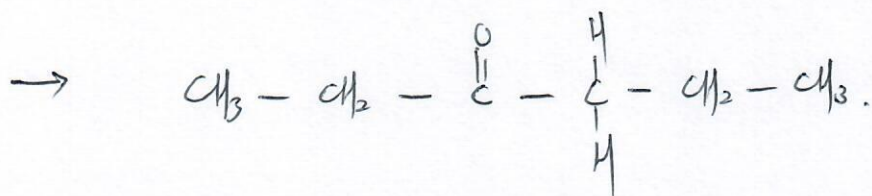
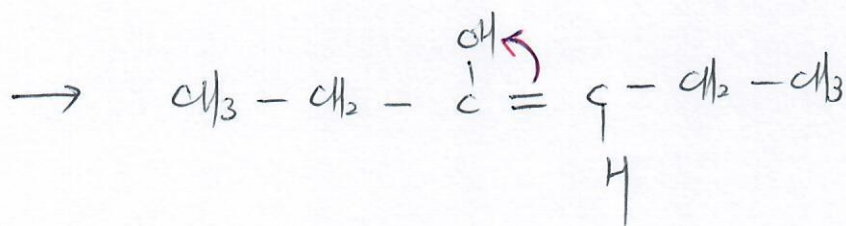
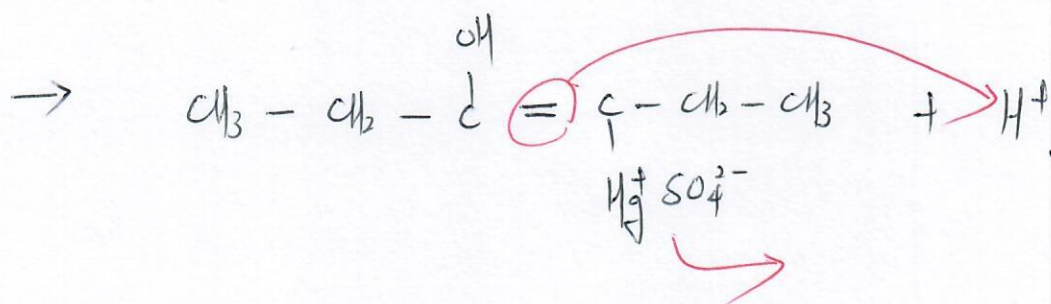
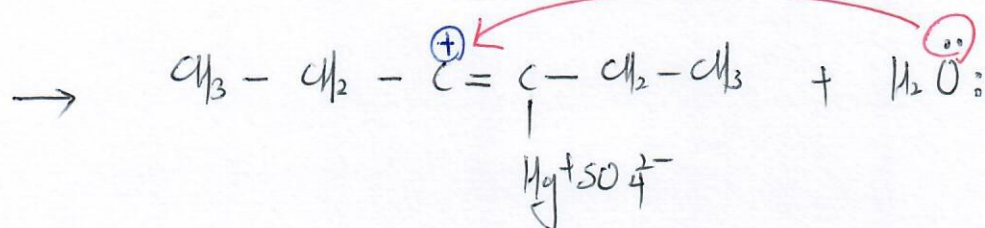
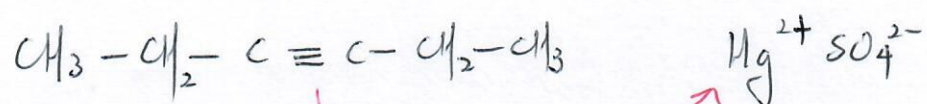
4 - Hexenal



cis - 2,5 - Dimethyl cyclohexanone

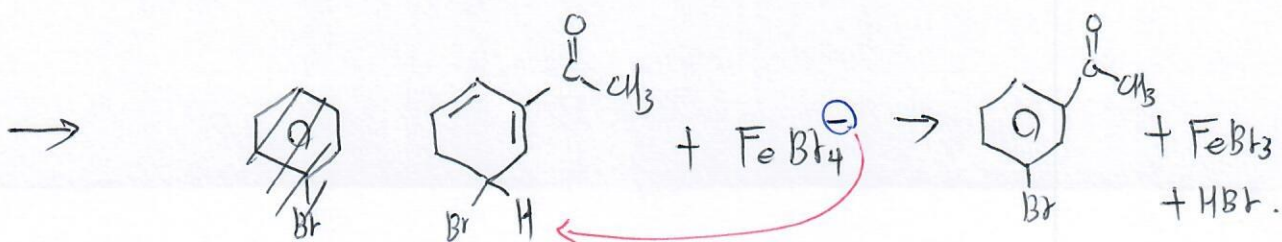
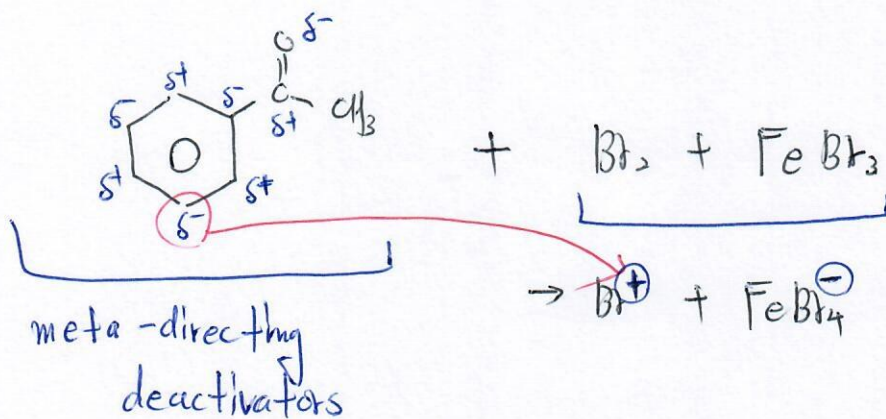
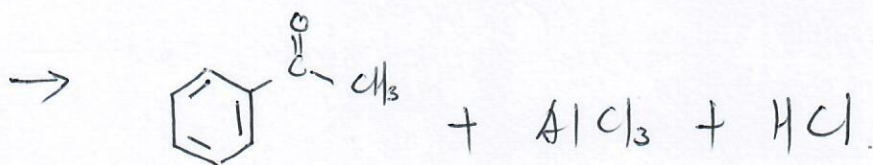
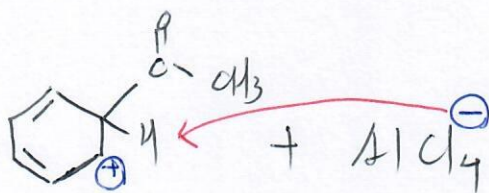
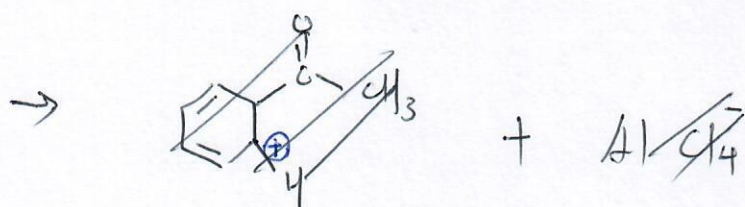
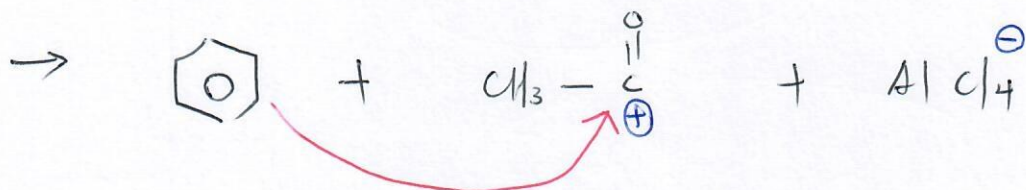
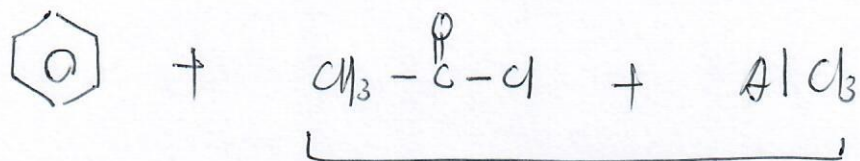
problem. 9-4 →

(a) 3 - Hexyne

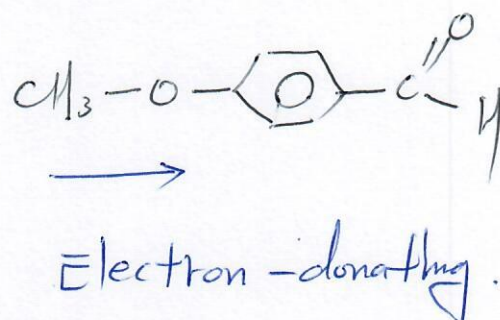
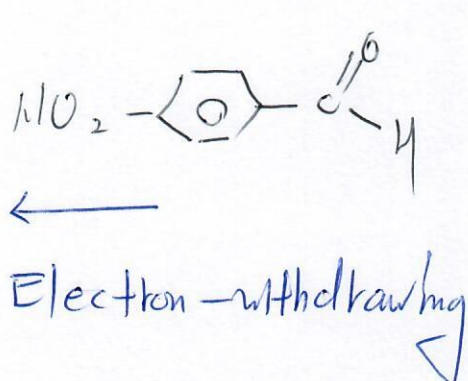


problem 19-4-2

b)

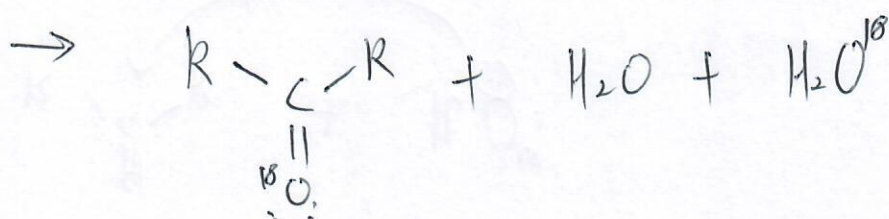
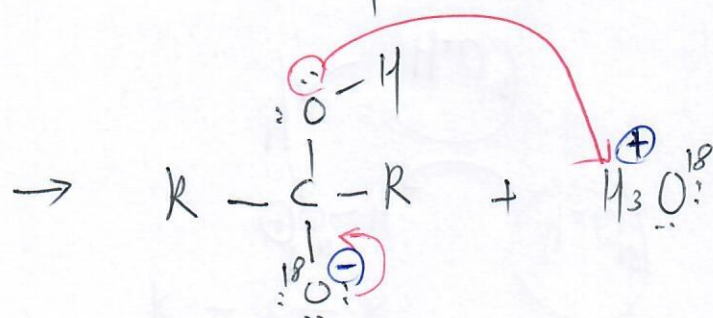
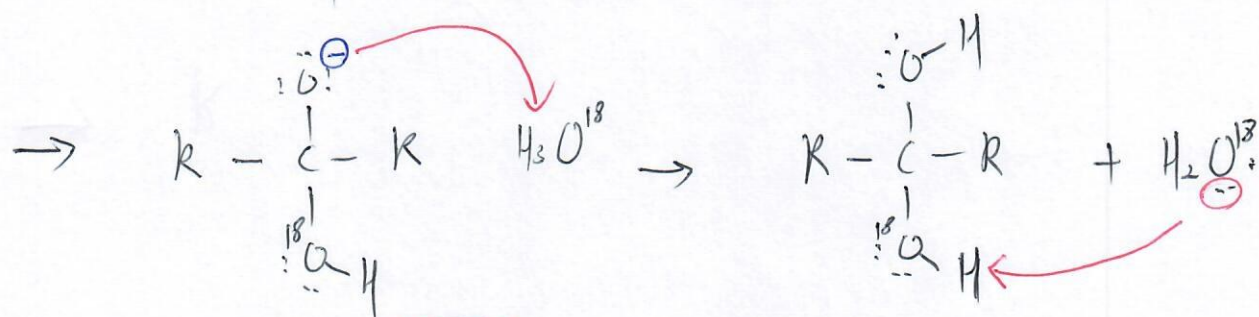
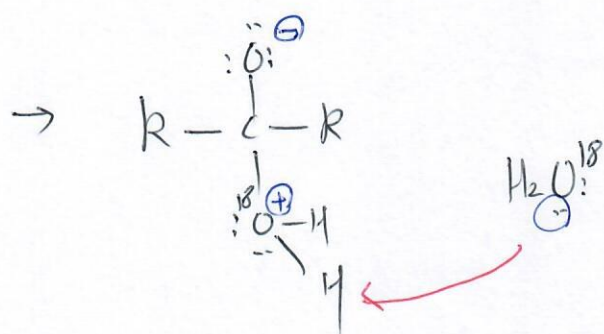
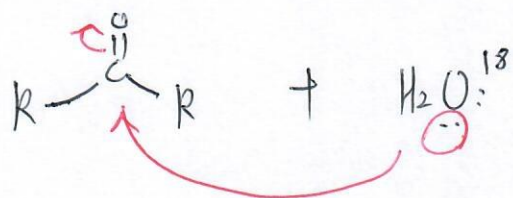


problem 19-6.



The electron-withdrawing nitro group makes the aldehyde carbon of p-nitrobenzaldehyde more electron-poor (more electrophilic) and more reactive toward nucleophiles than the aldehyde carbon of p-methoxybenzaldehyde.

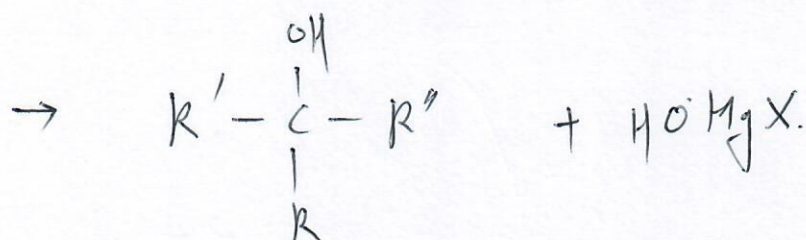
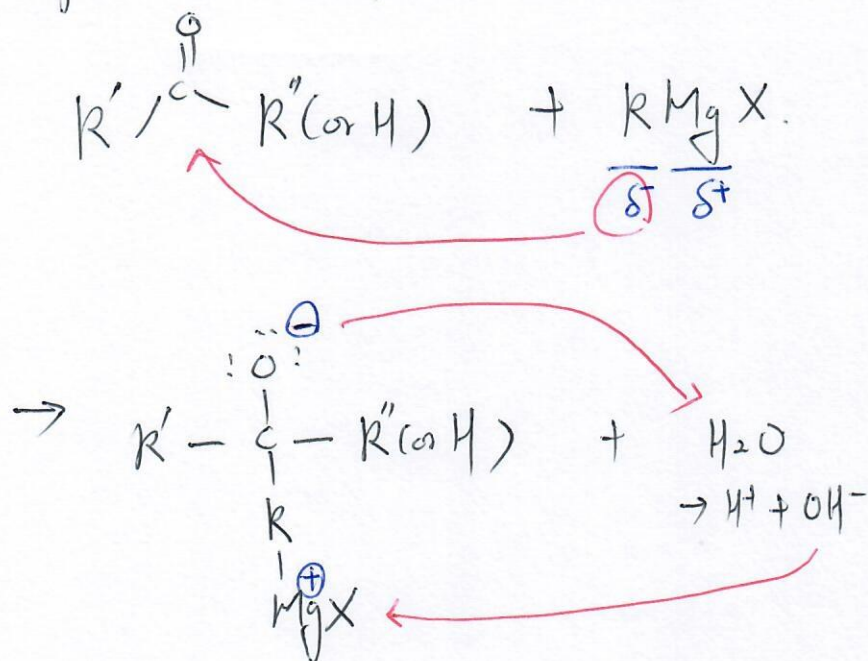
problem 19-8



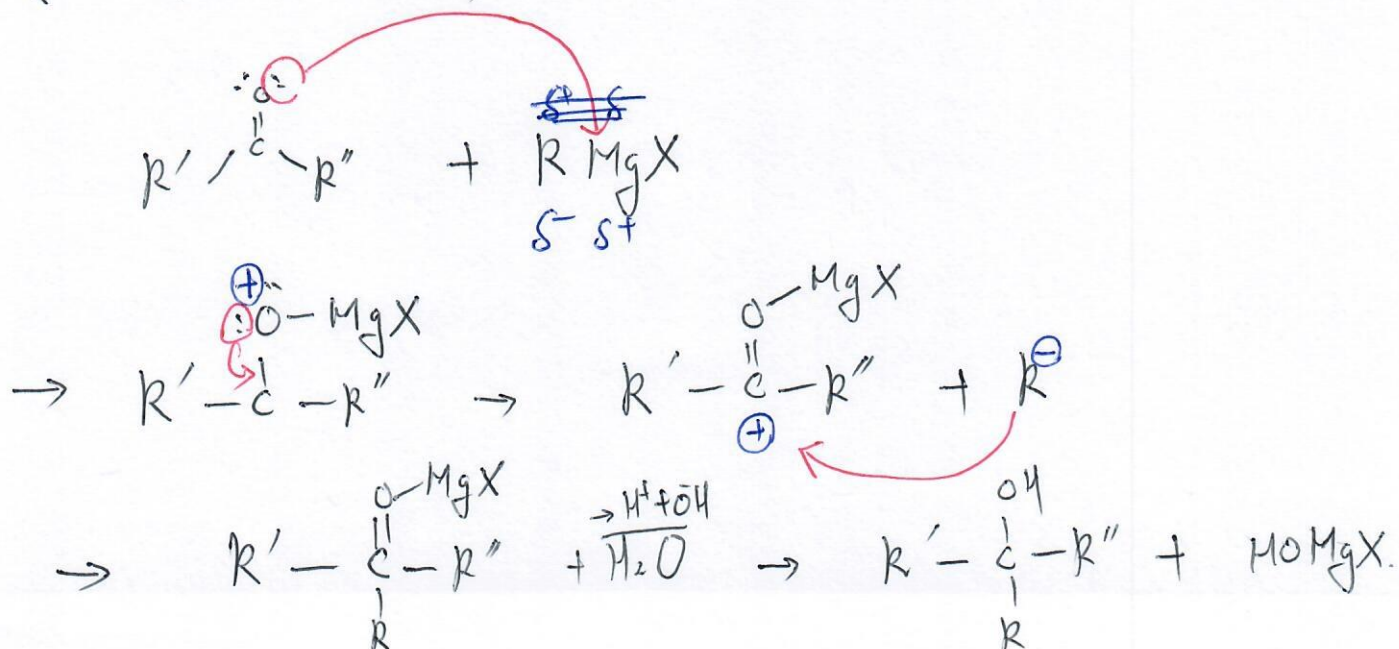
Two H_2O^{18} is used on rxn. and

Section 19-7.

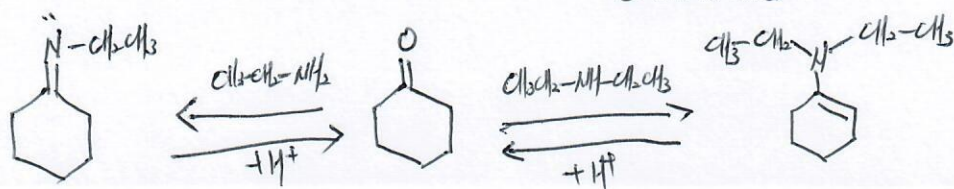
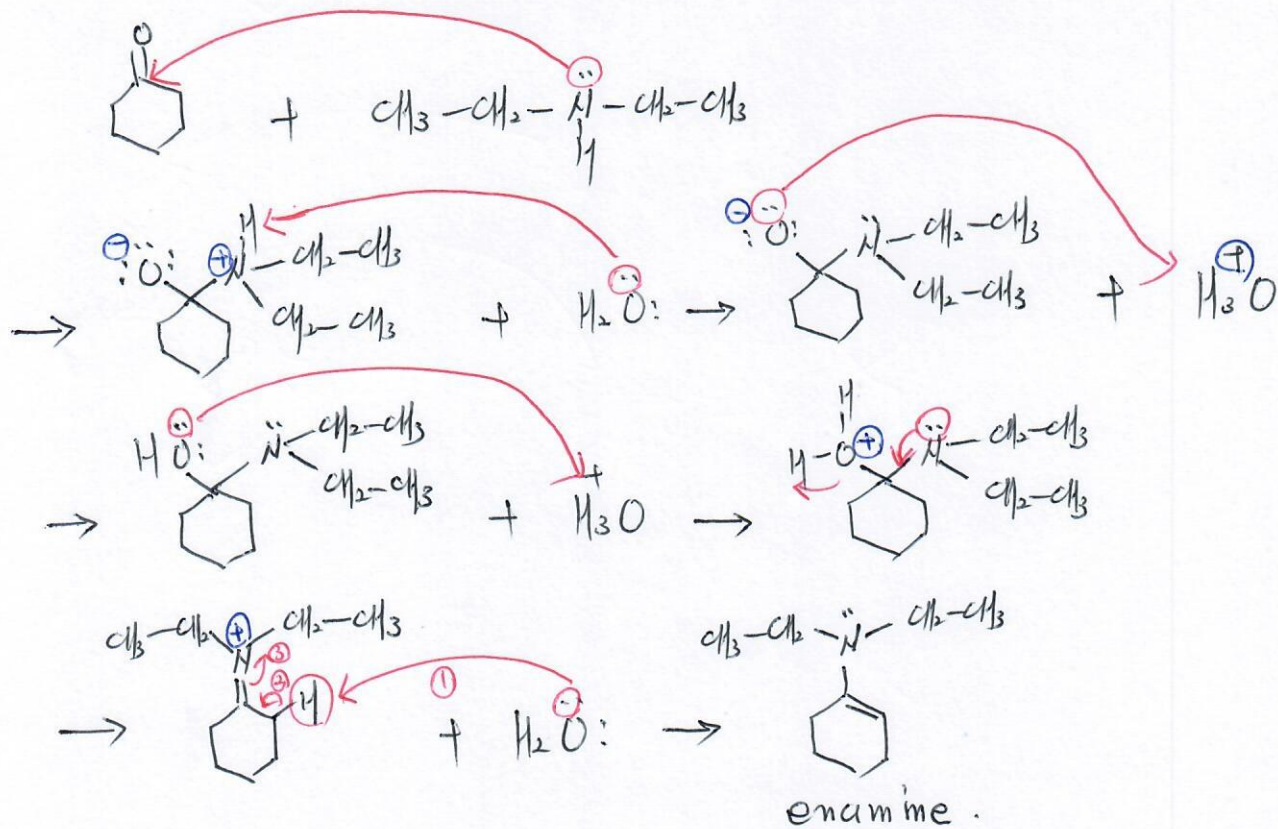
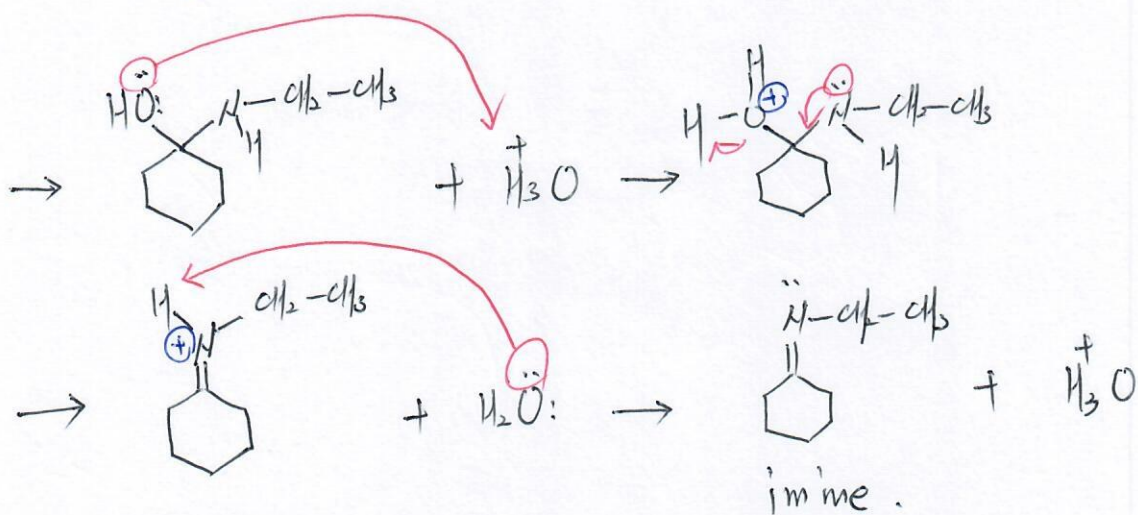
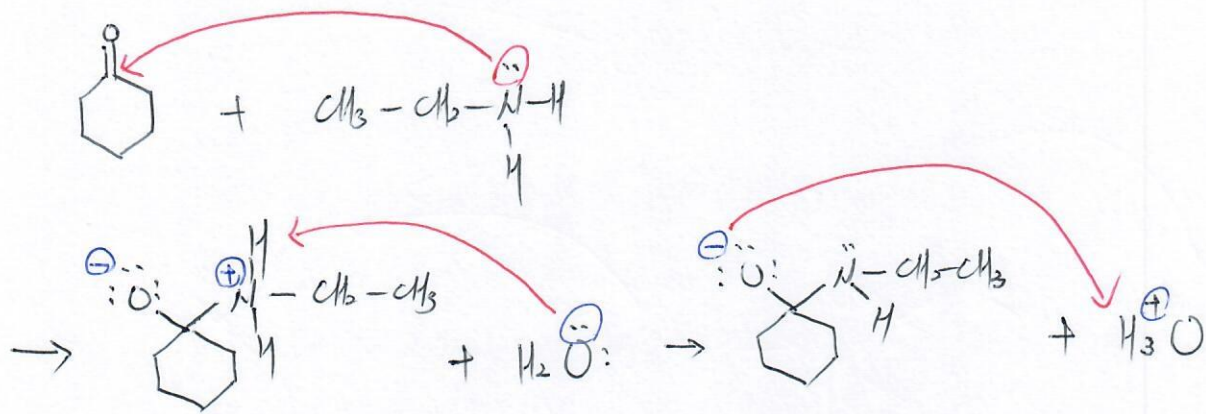
Addition of Grignard Reagents. RMgX .
< Simple mechanism >



< More detail >



problem 19-10.



problem 19-12.

