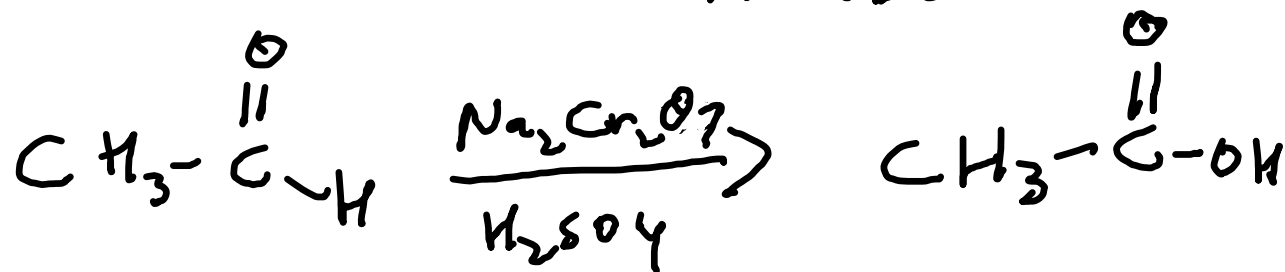
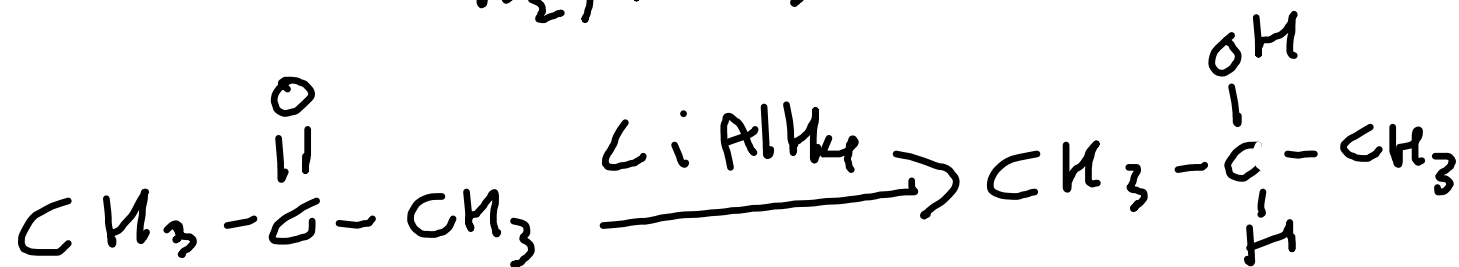
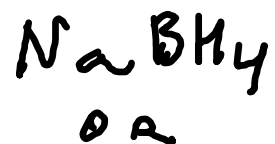
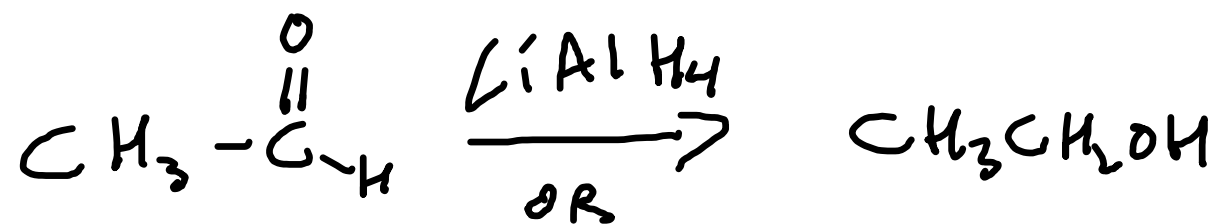


# REACTIONS OF ALDEHYDES AND KETONES

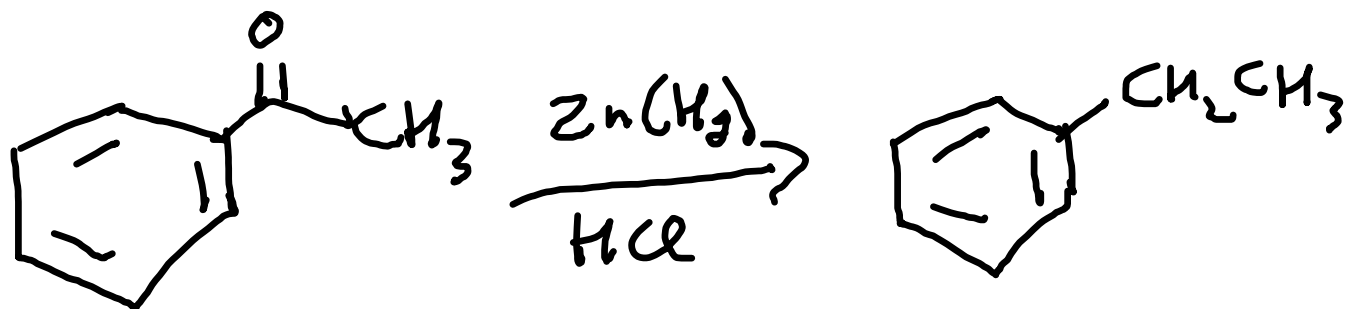
## i) OXIDATION OF ALDEHYDES TO ACIDS



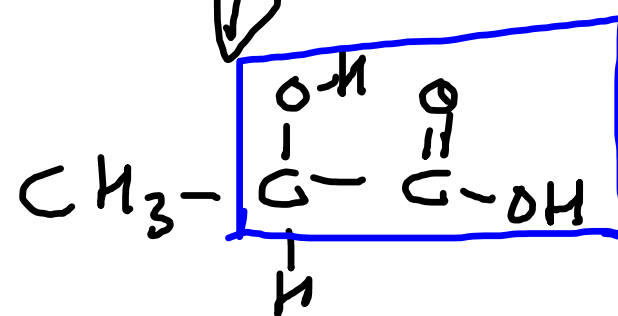
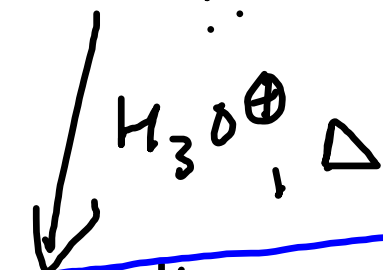
## 2) RÉDUCTION TO ALCOHOLS



### 3) REDUCTION TO HYDROCARBONS

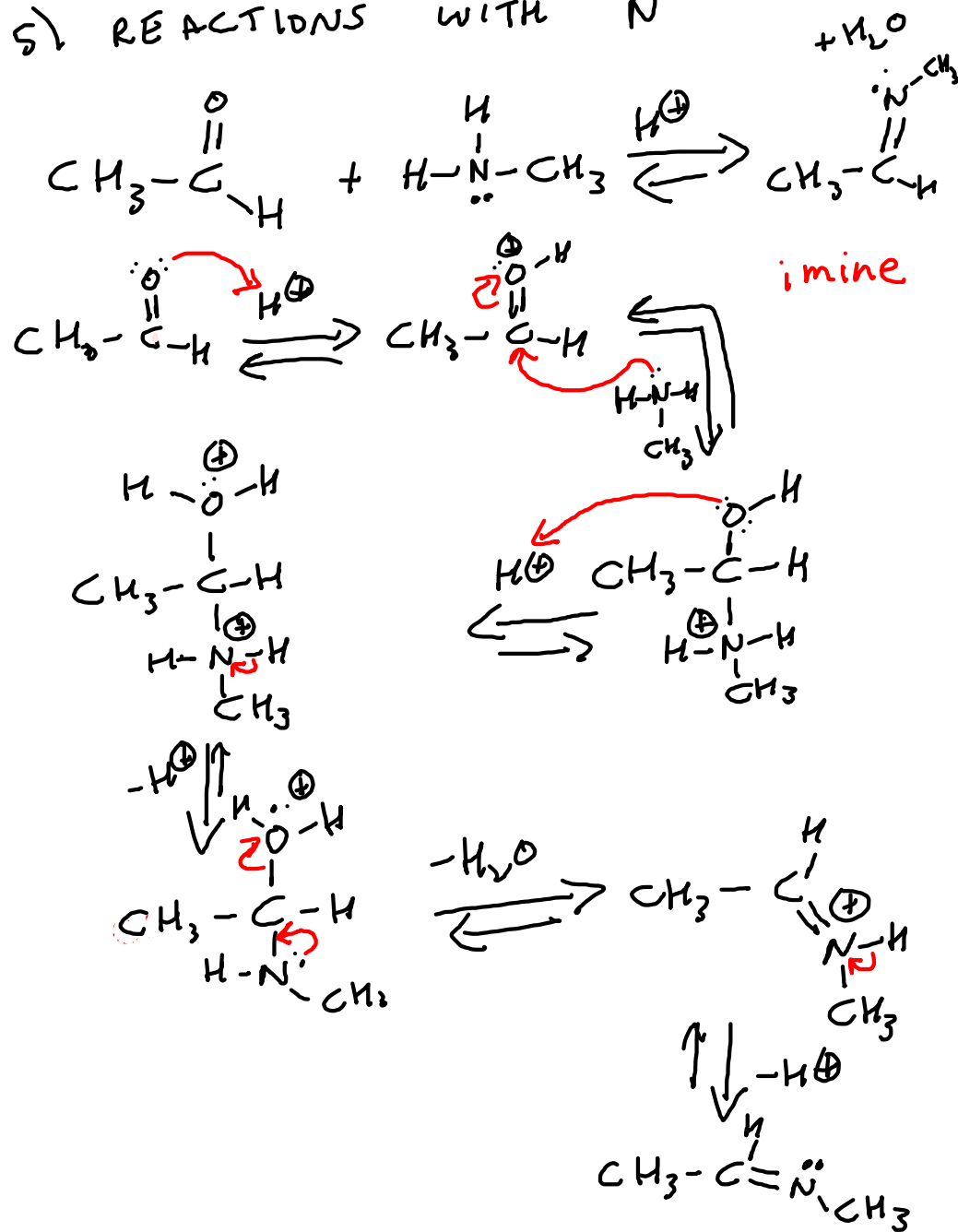


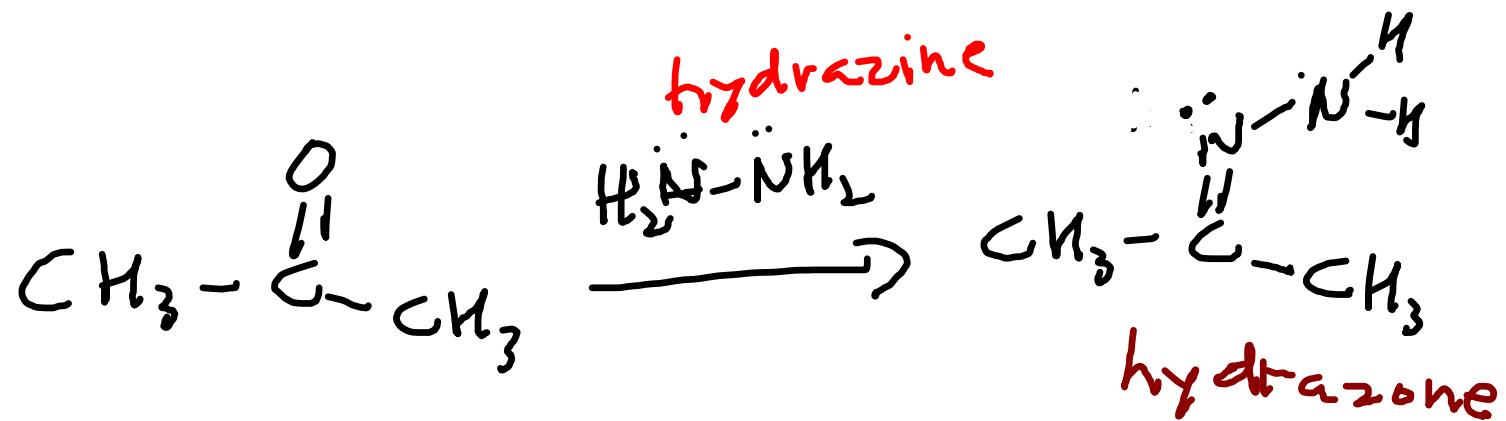
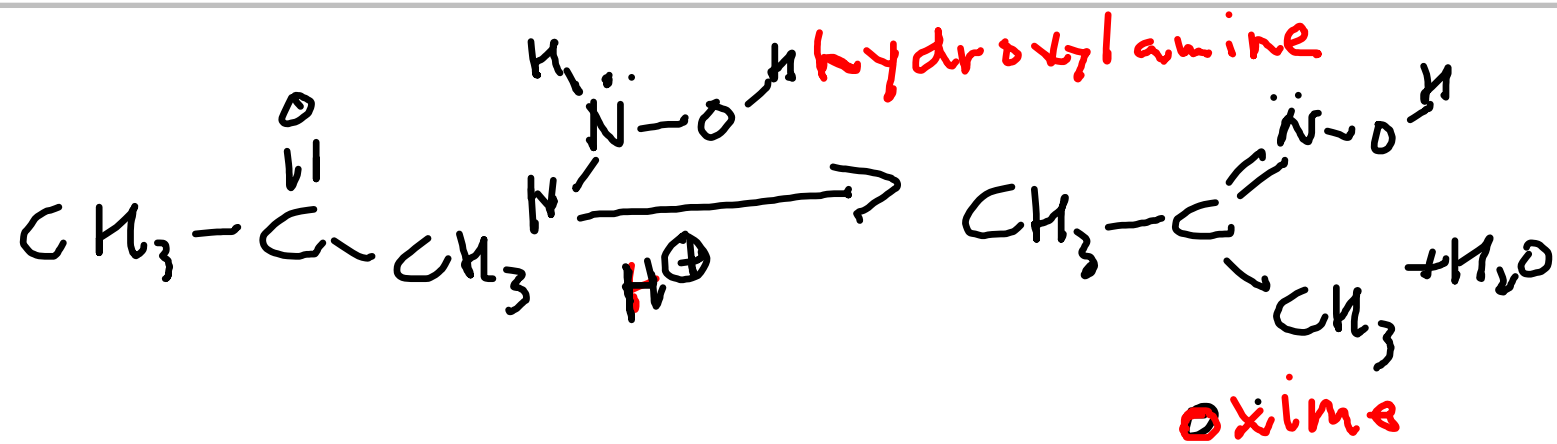
# 4) CYANOHYDRIN FORMATION



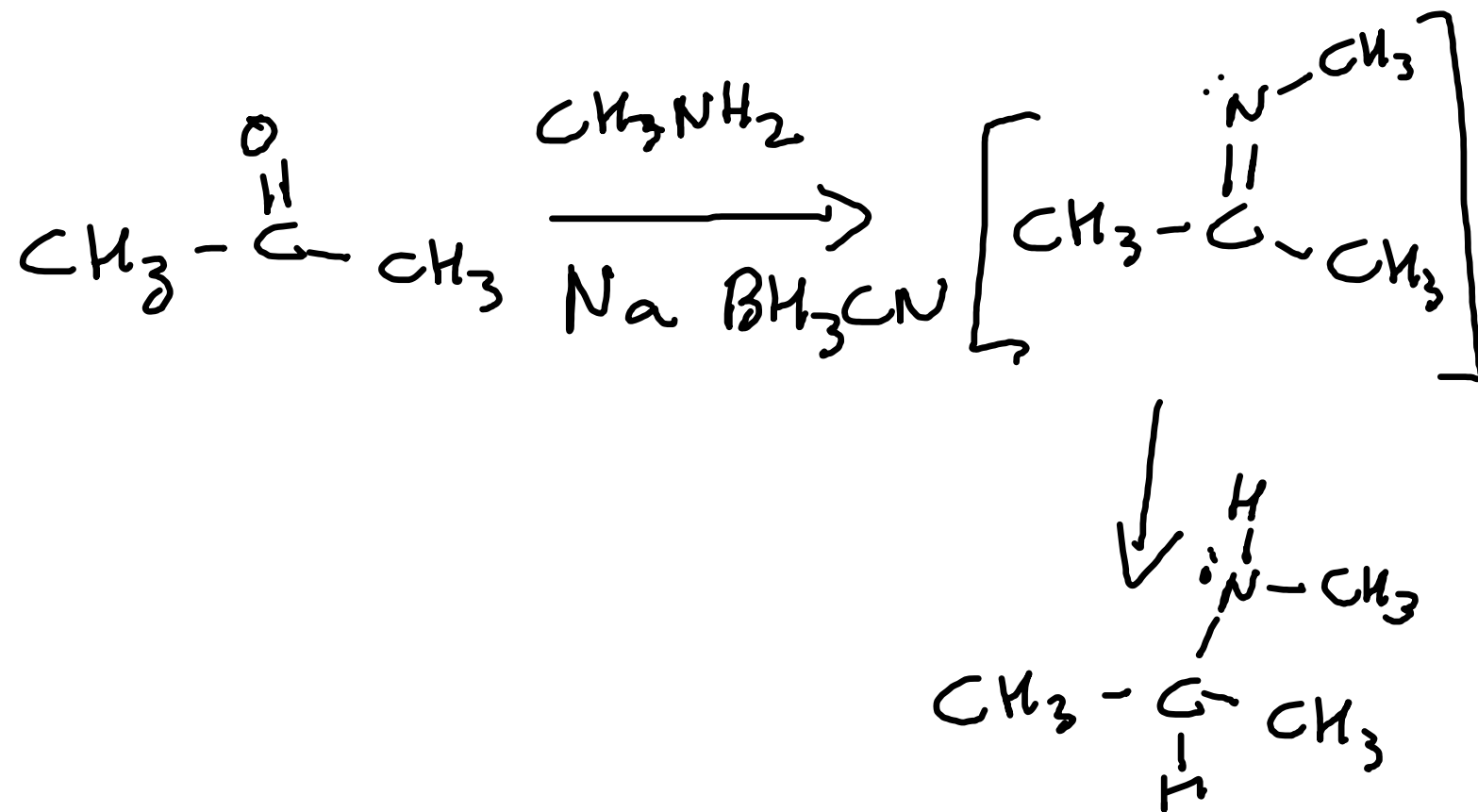
$\alpha$ -hydroxy acid

5) REACTIONS WITH N



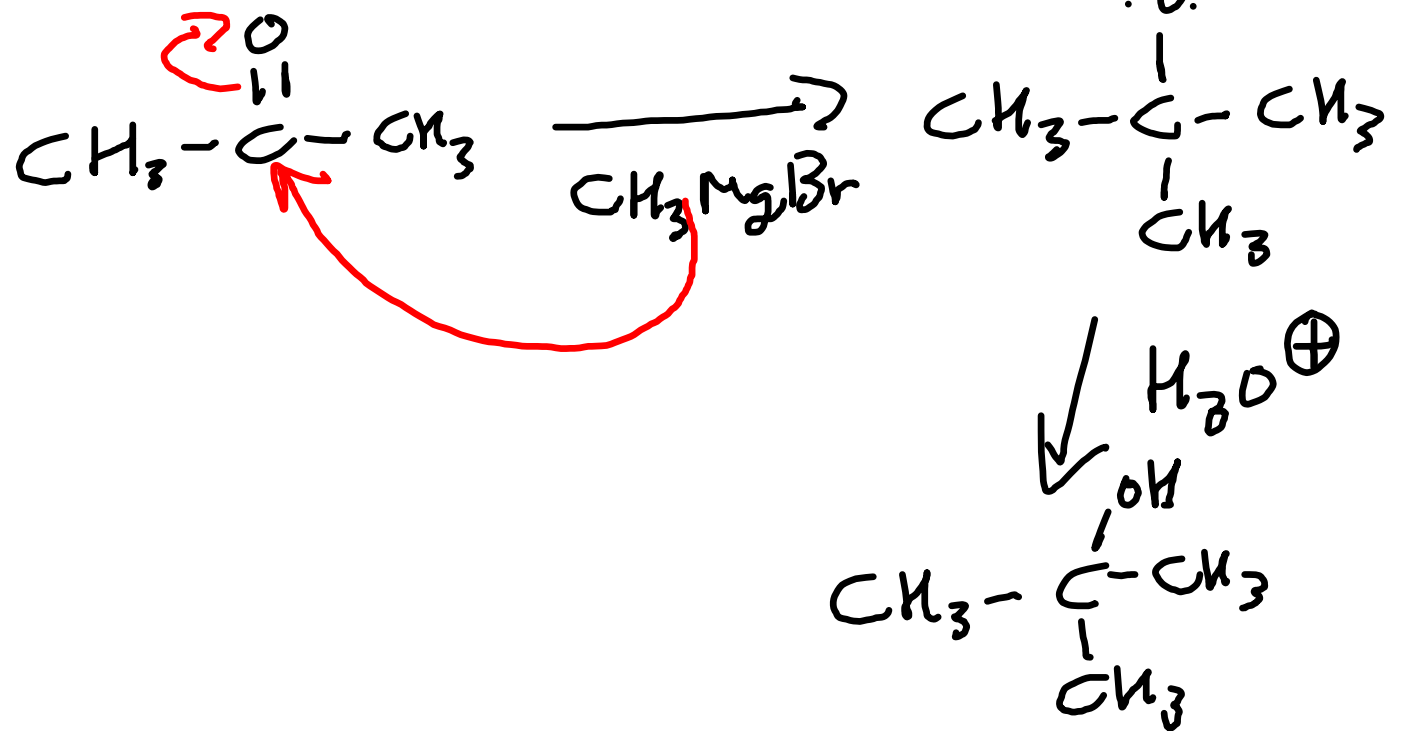


# REDUCTIVE AMINATION

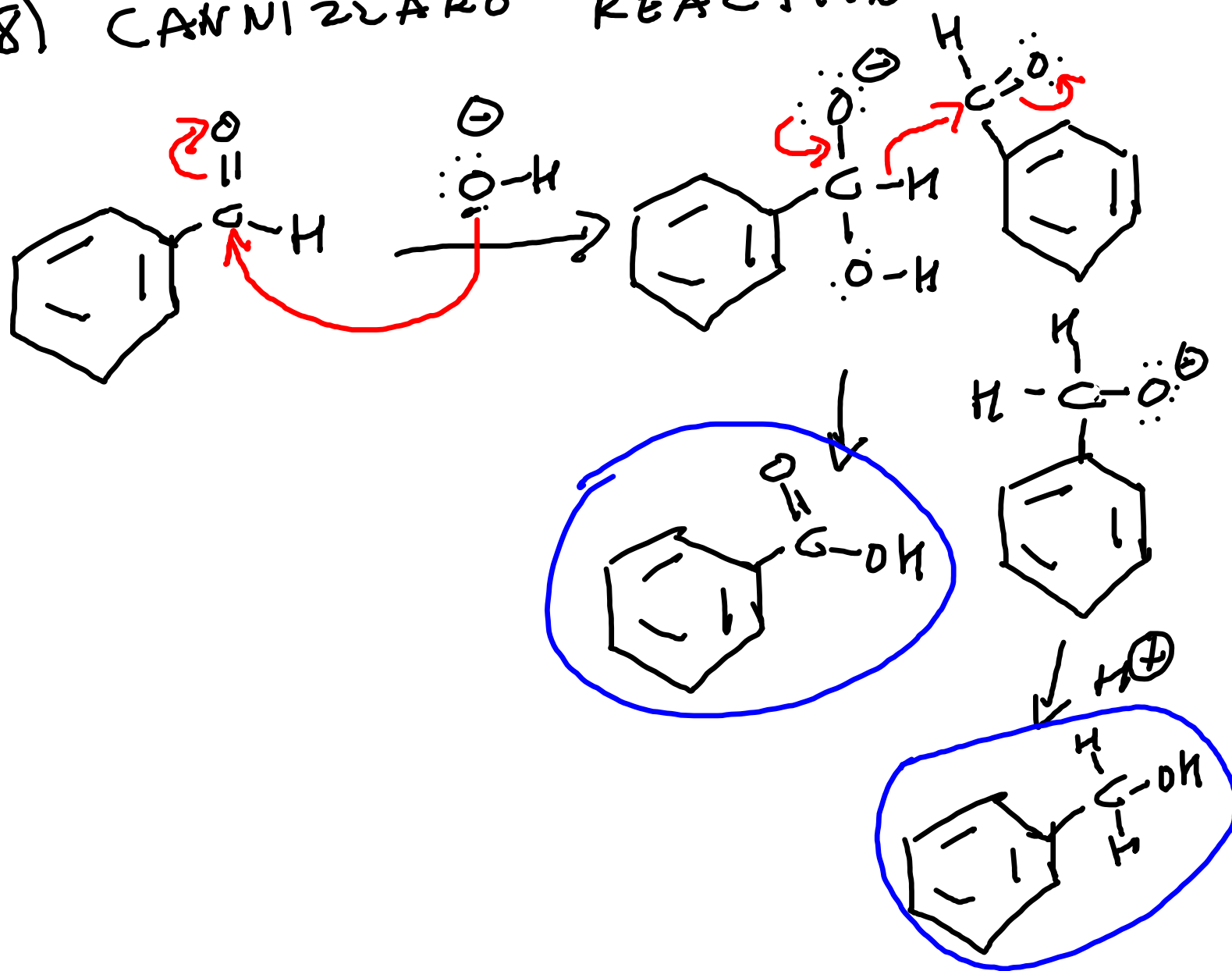




→) ADDITION OF GRIGNARD REAGENTS



# 8) CANNIZZARO REACTION



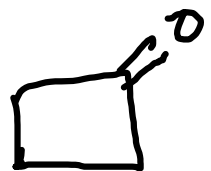


IR

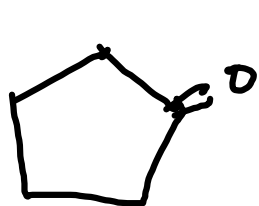
RCHO 1725  $\text{cm}^{-1}$

ArCHO 1700  $\text{cm}^{-1}$

Ar  $\overset{\text{O}}{\parallel}$  C-R 1690  $\text{cm}^{-1}$



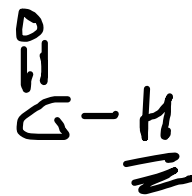
1780  $\text{cm}^{-1}$



1740  $\text{cm}^{-1}$

NMR

$\delta$  9-10 ppm



CMR

$\delta$  190-200 ppm

