

# Carboxylic Acid Derivatives

Note Title

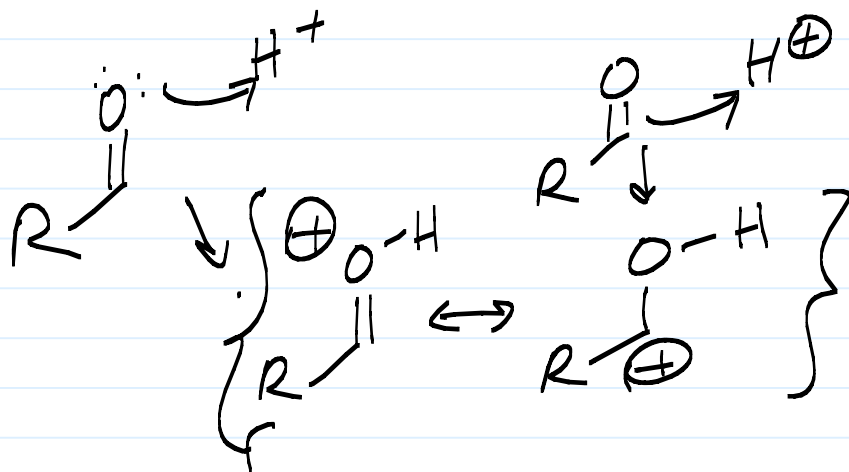
4/24/2014

Announcements: (1) Regrade Requests due now.

(2) Midterm 2 available after class (if you didn't already get it.)

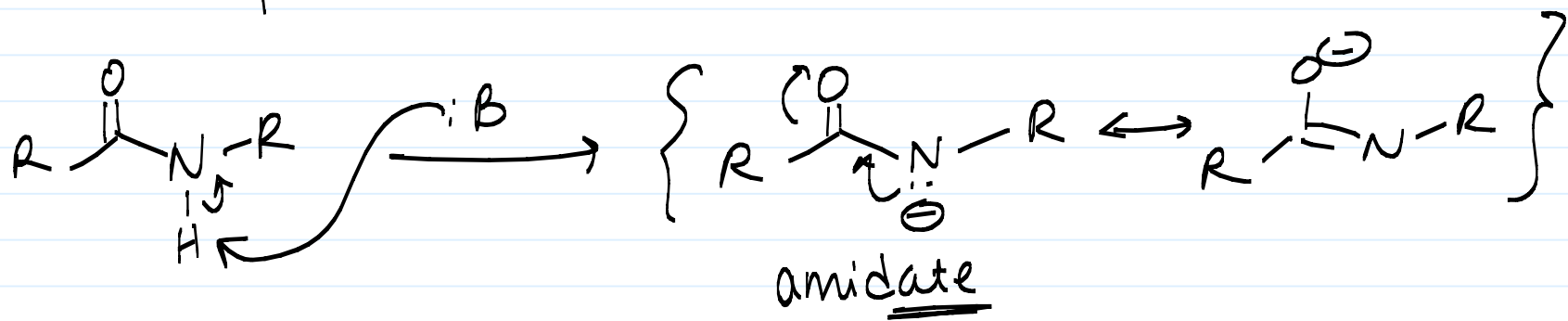
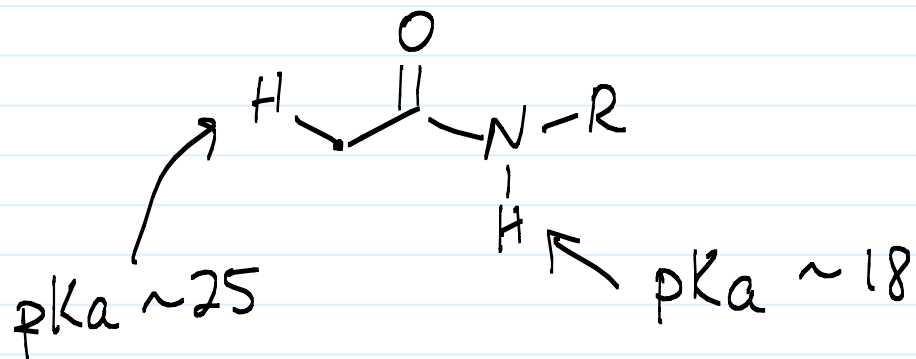
(3) Clarification on "100 different mechanisms."

Music videos due May 2.

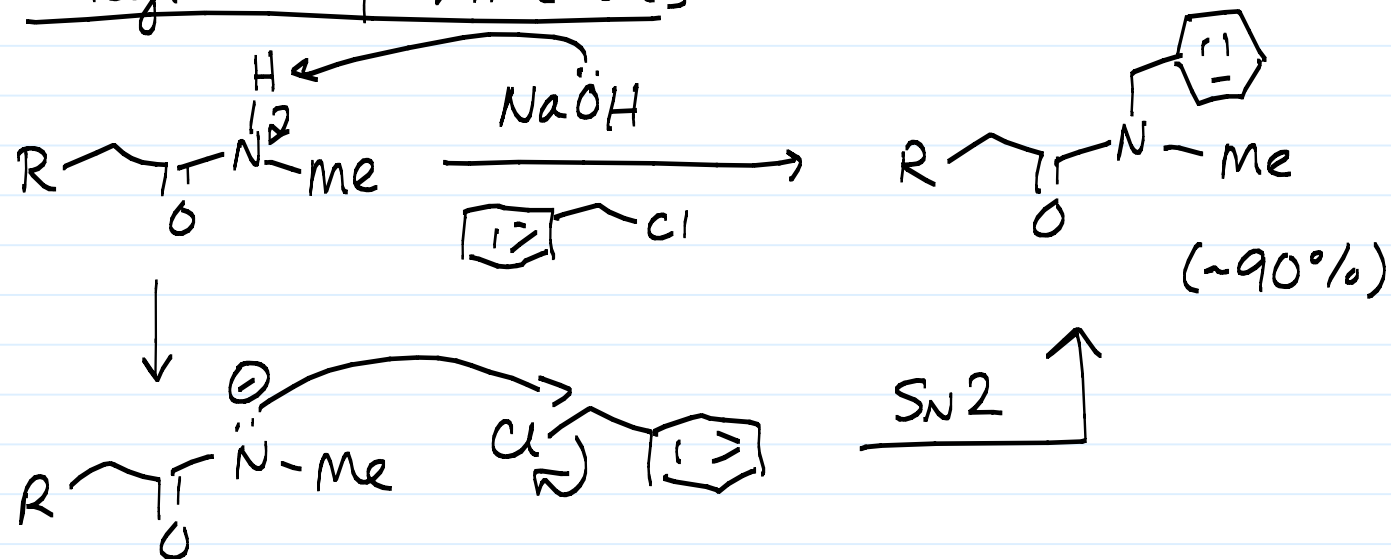


# Reactions of Amides

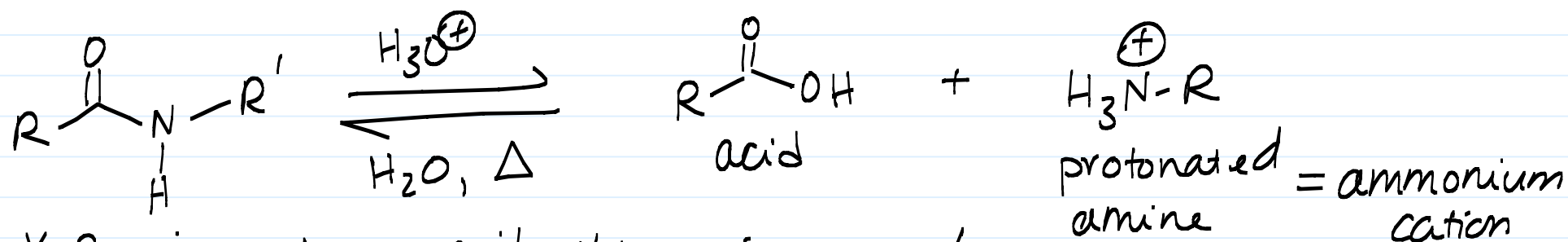
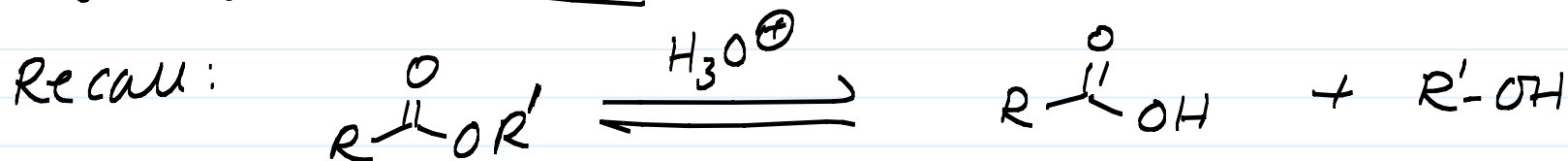
Amidates:



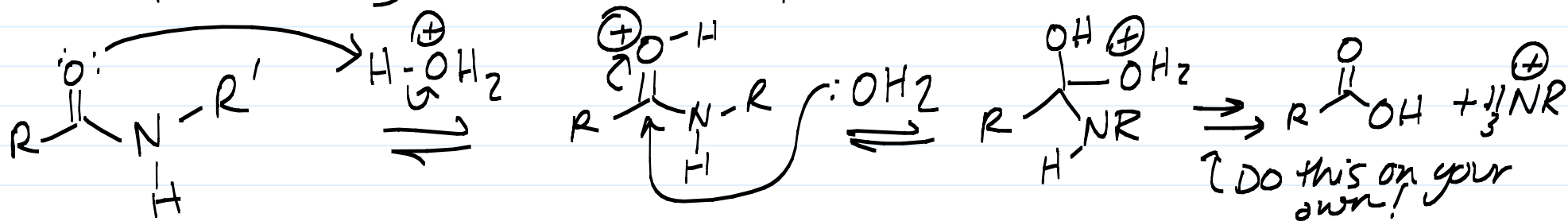
## Alkylation of Amidates



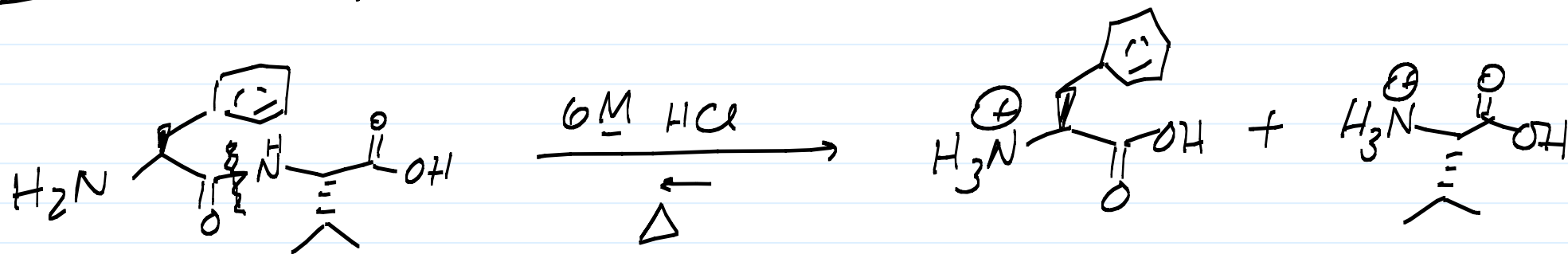
# Hydrolysis of Amides



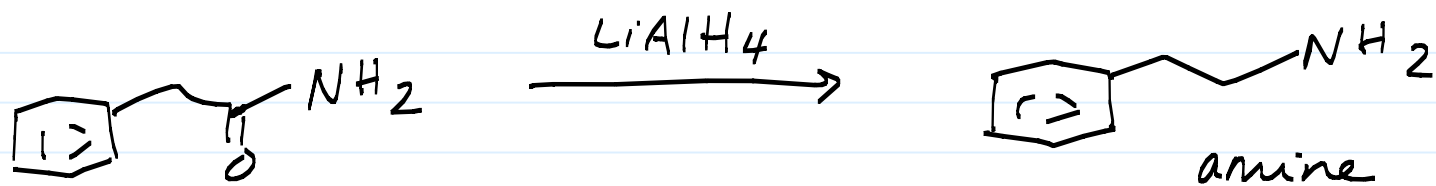
\* Requires strong acid w/ heat & pressure!



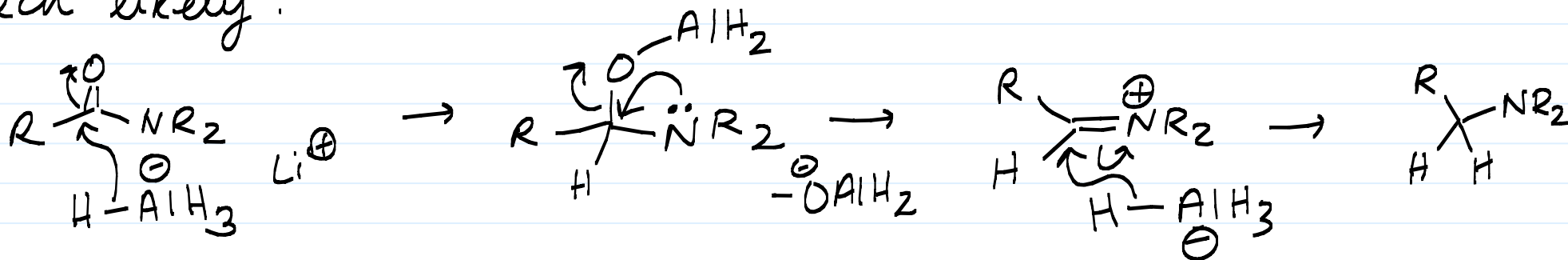
ex: Protein/Peptide hydrolysis



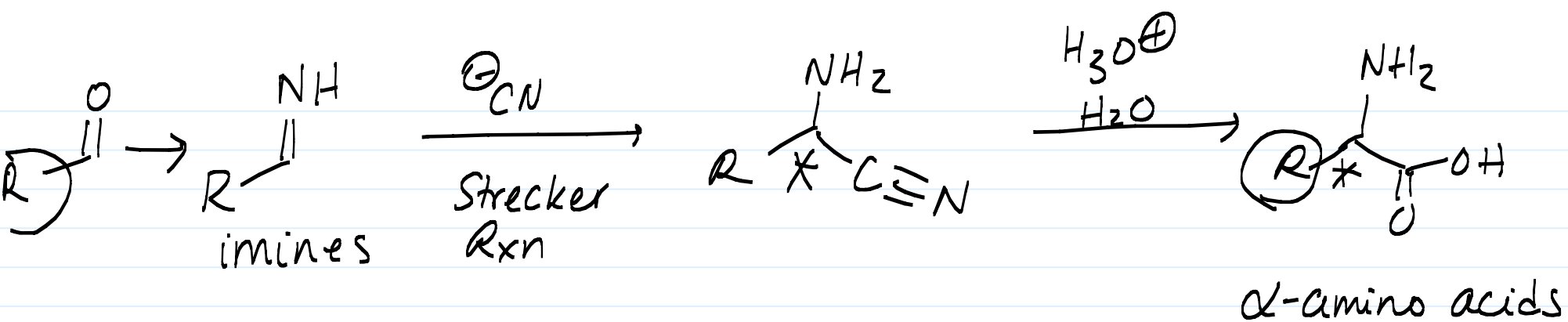
## Reduction of Amides



Mech likely:

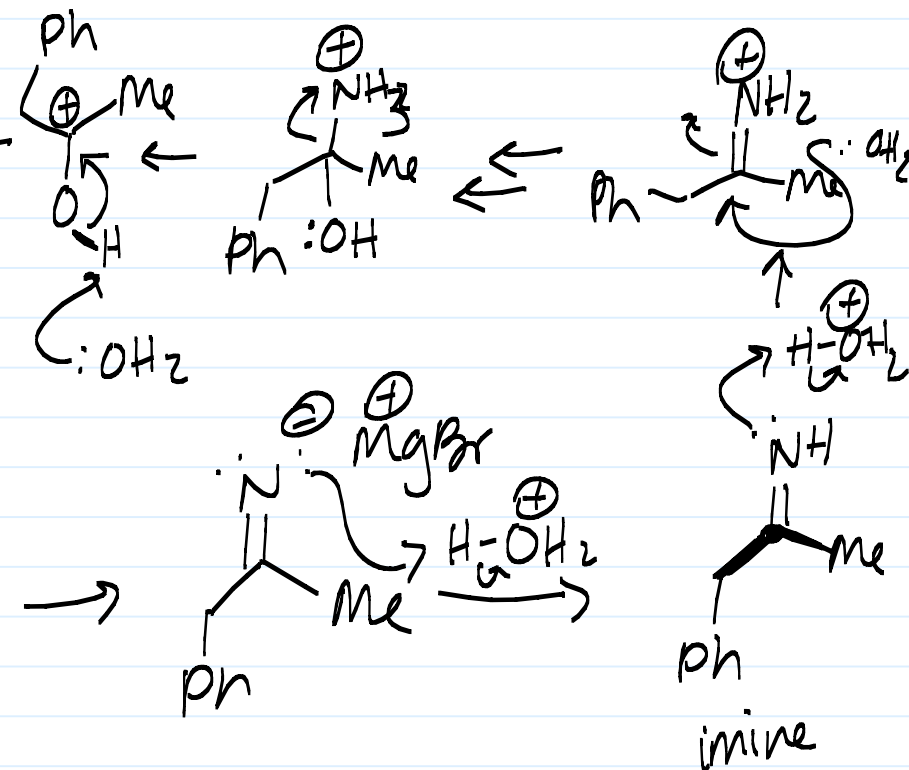
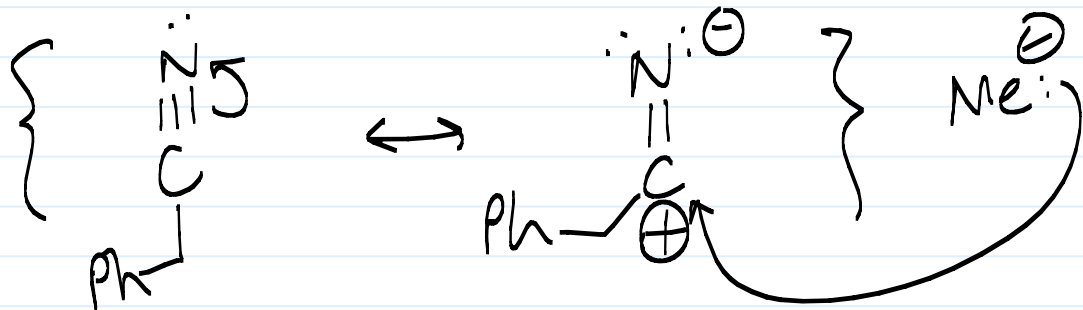
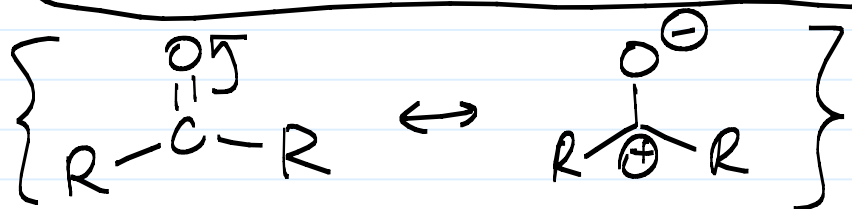
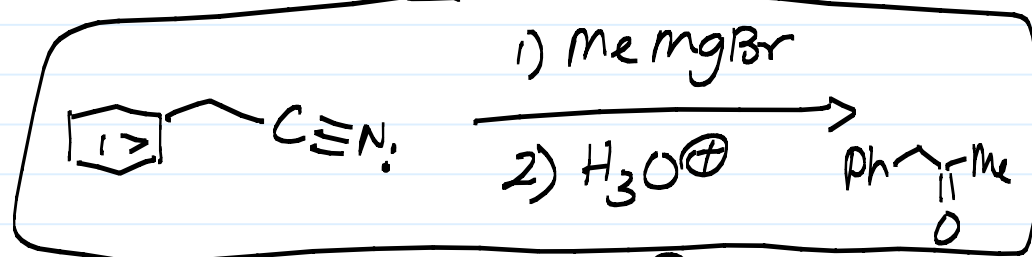




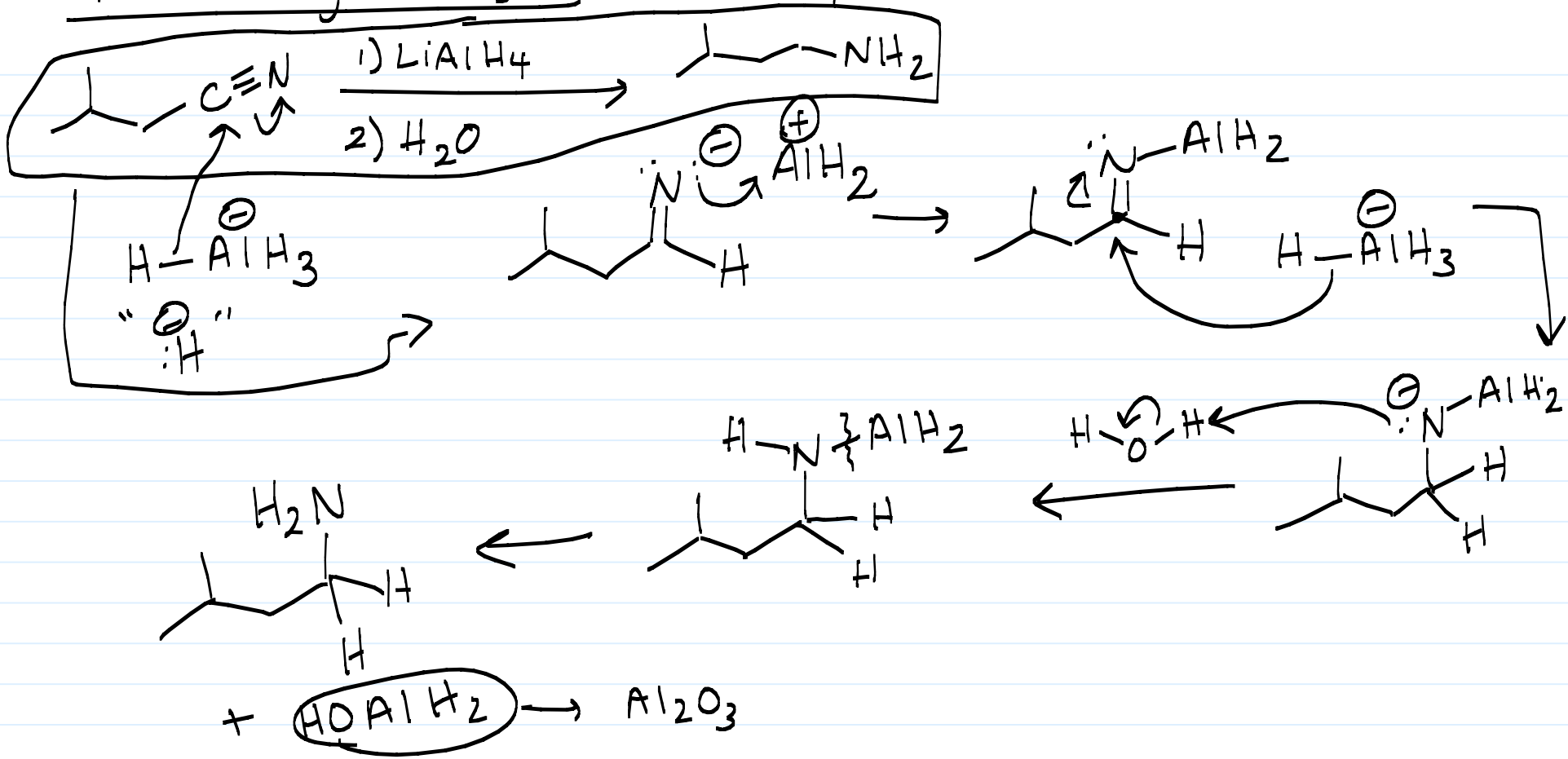




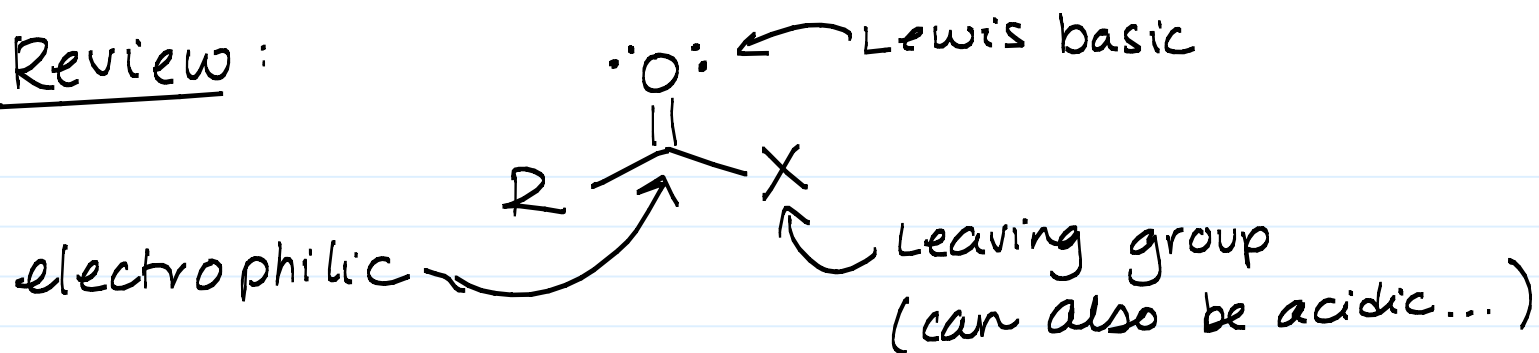
# Additions of Organometallic Reagents ← Grignards



# Metal Hydrides : LiAlH<sub>4</sub>



Review:



$\hookrightarrow$  carboxylic acids,  $1^\circ$  &  $2^\circ$  amides

