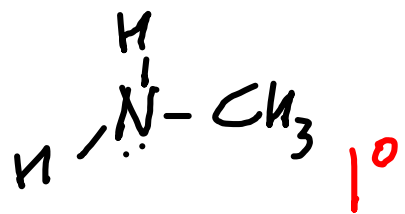
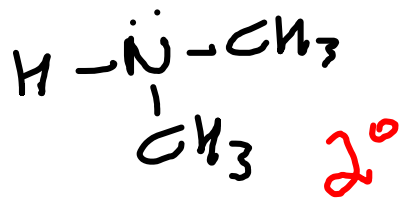


# AMINES

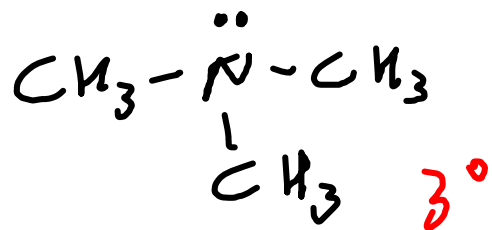
## NOMENCLATURE



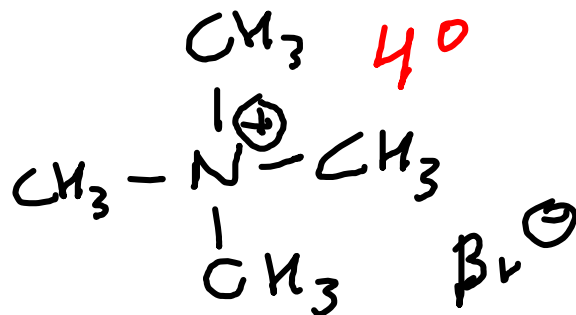
methylamine



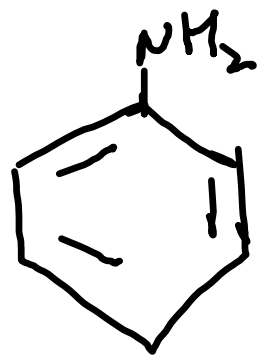
dimethylamine



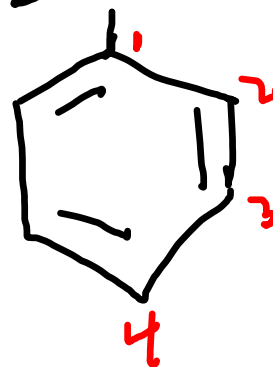
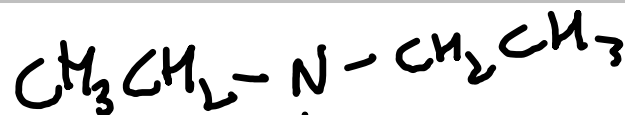
trimethylamine



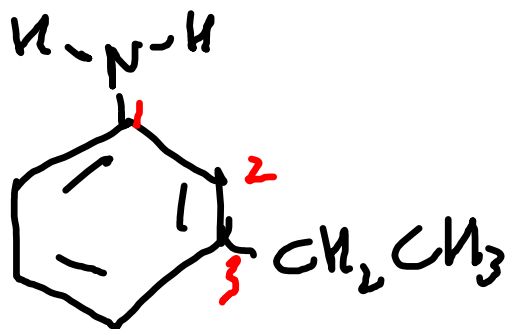
tetramethyl  
ammonium  
bromide



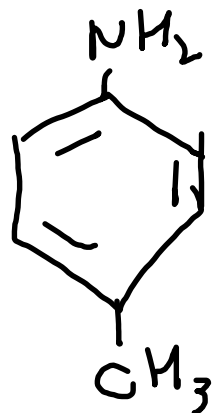
aniline  
aminobenzene



N,N-diethylaniline



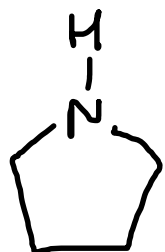
3-ethylaniline  
meta-ethylaniline  
1-amino-3-ethylbenzene



p-toluidine  
p-methylaniline



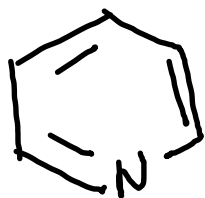
pyrrole



pyrrolidine



imidazole



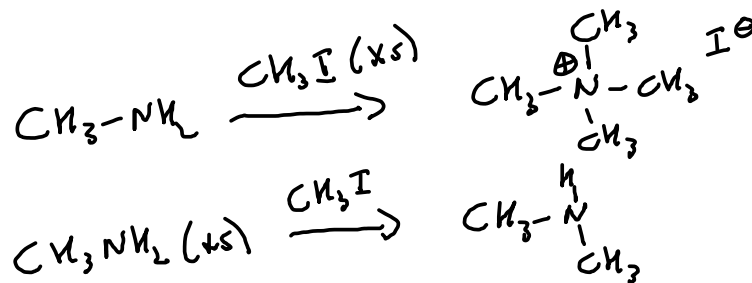
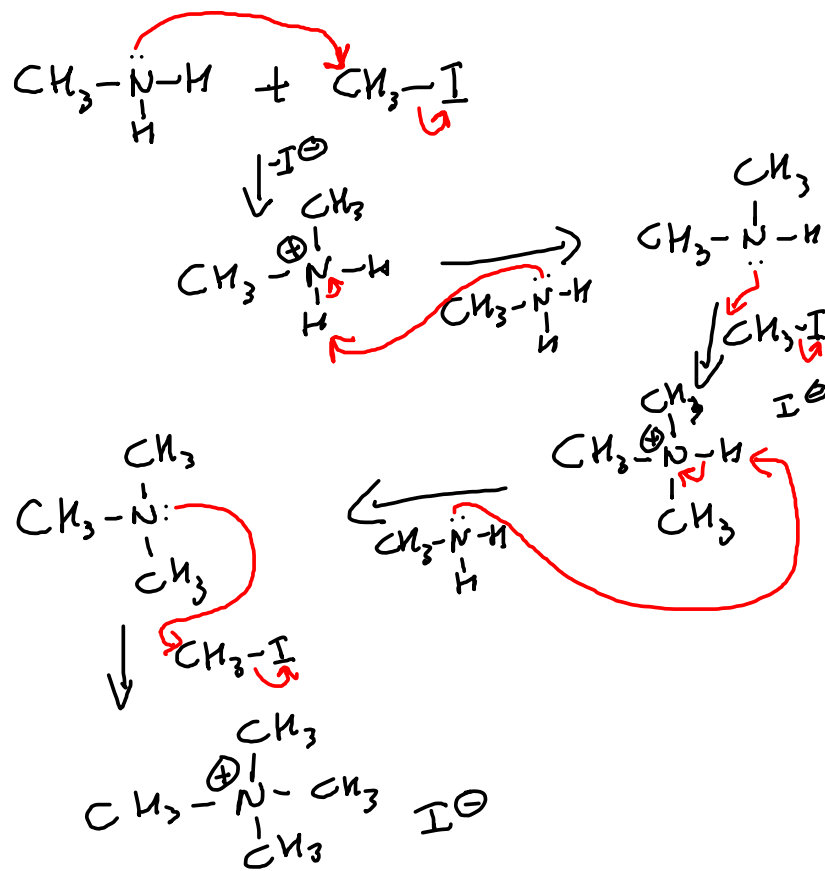
pyridine



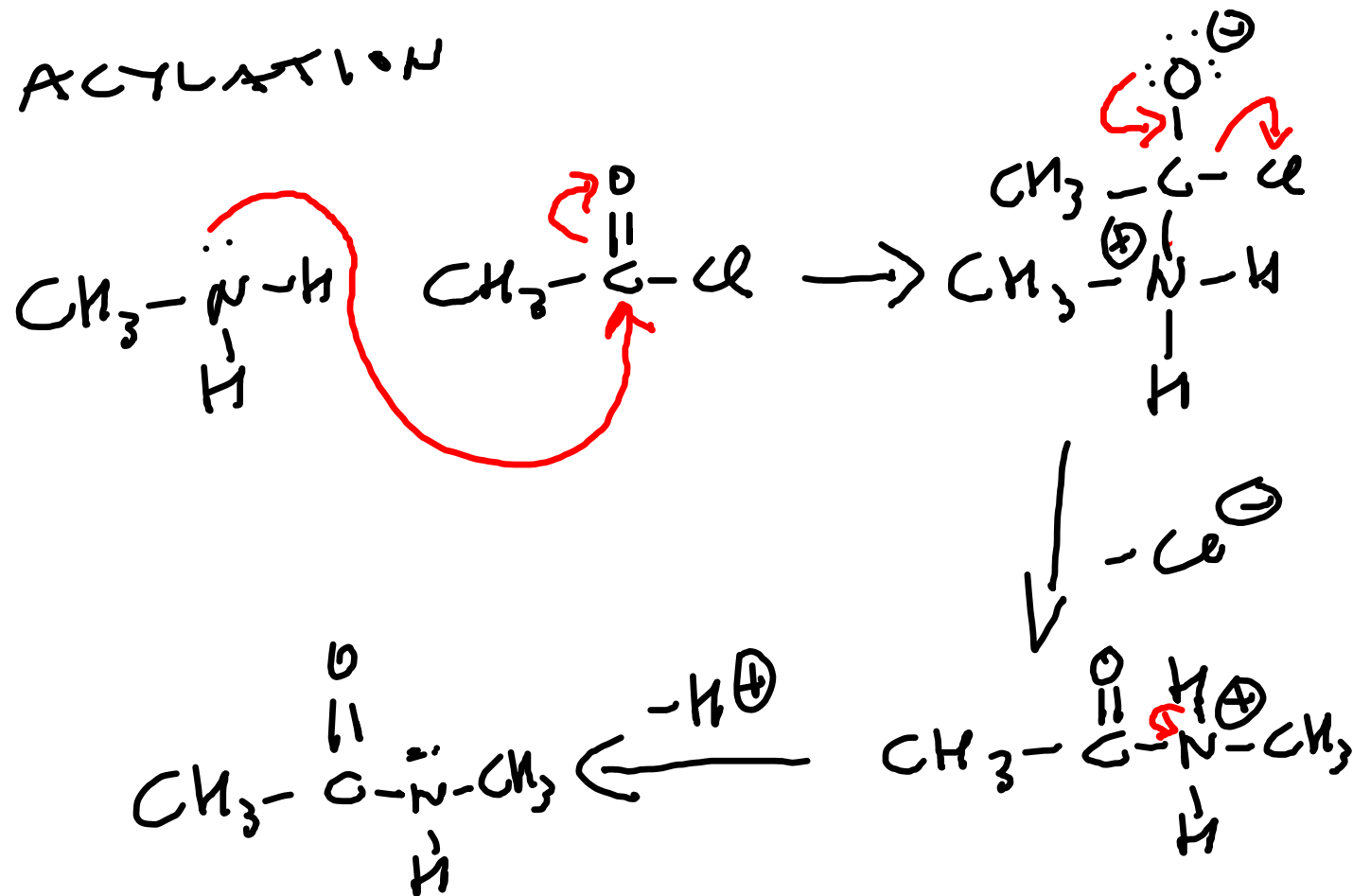
piperidine

# REACTIONS

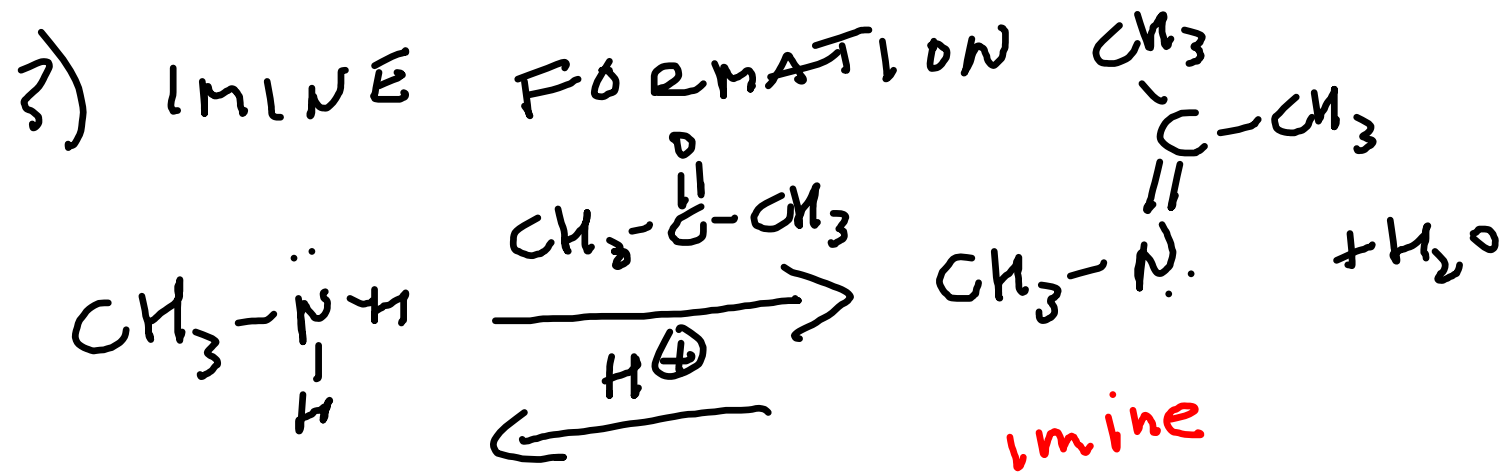
## 1) ALKYLATION

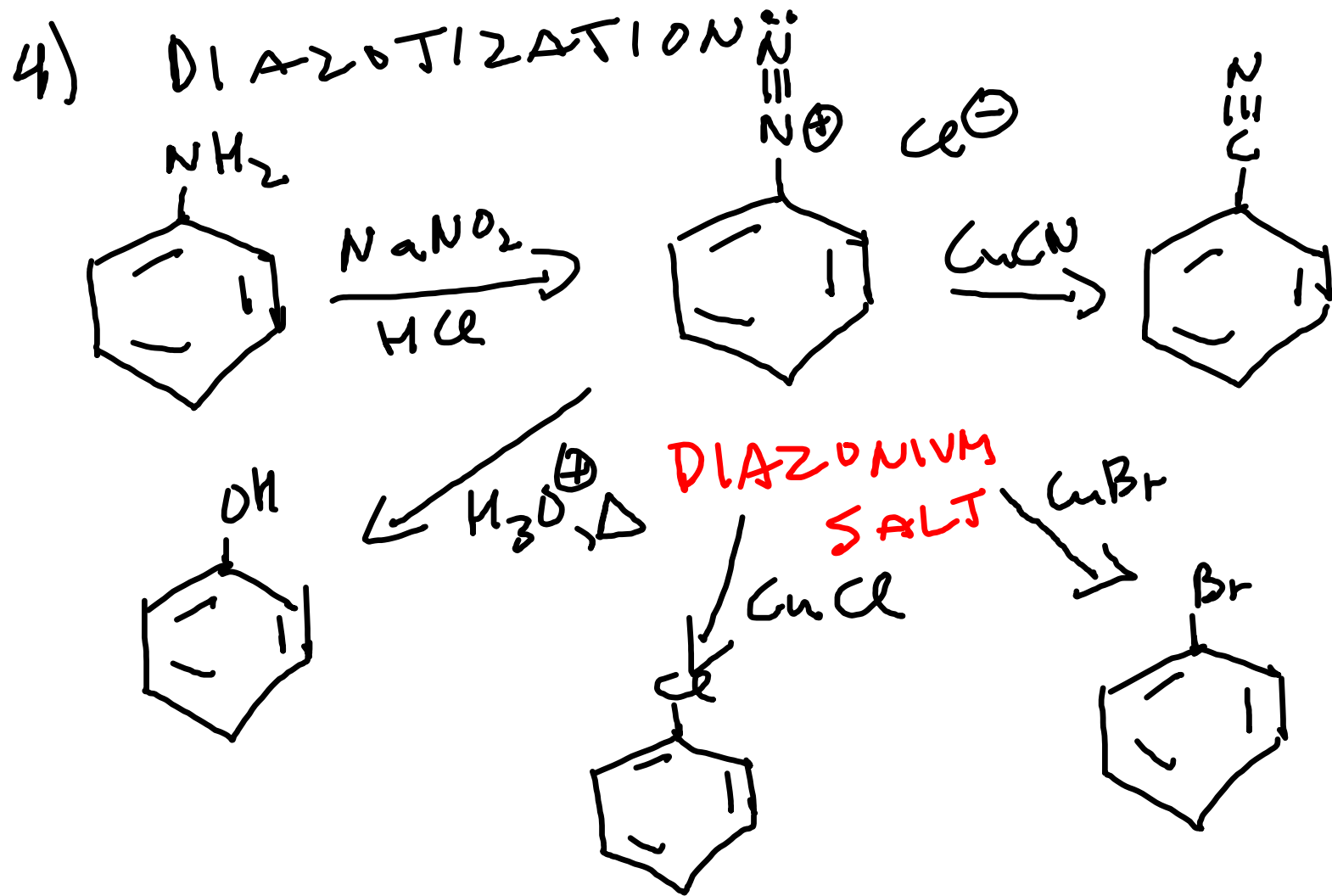


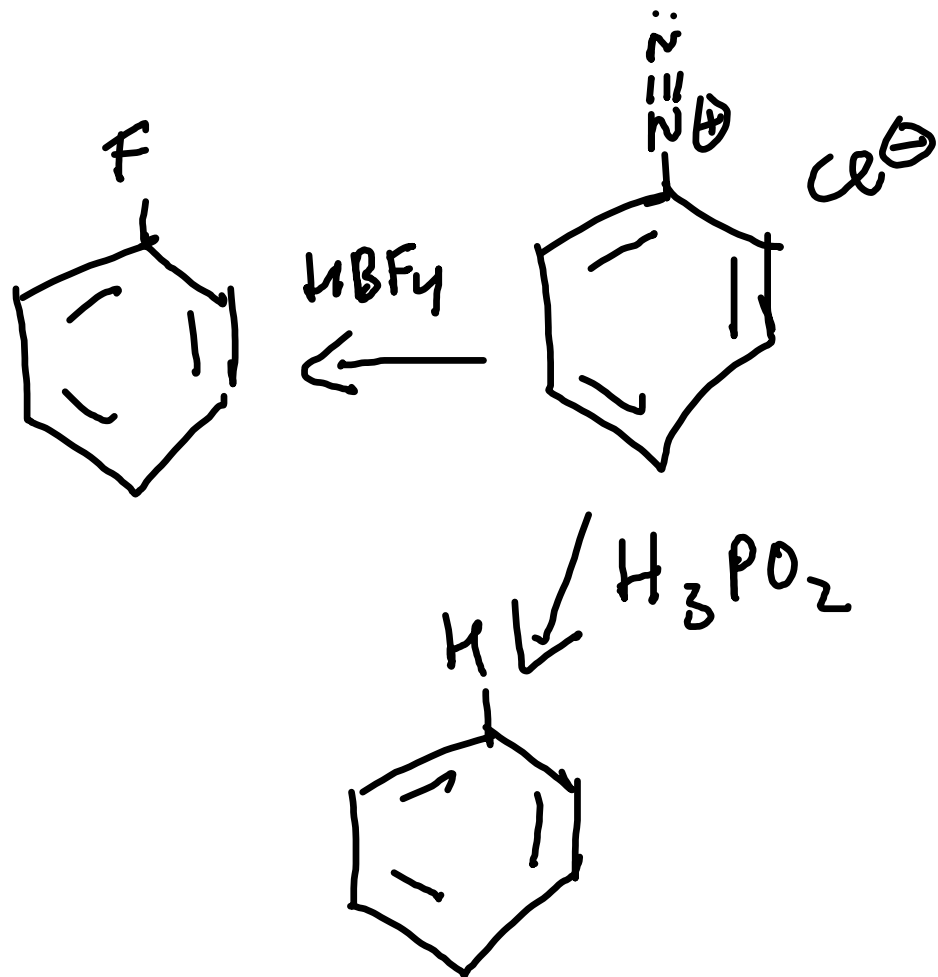
## 2) ACYLATION



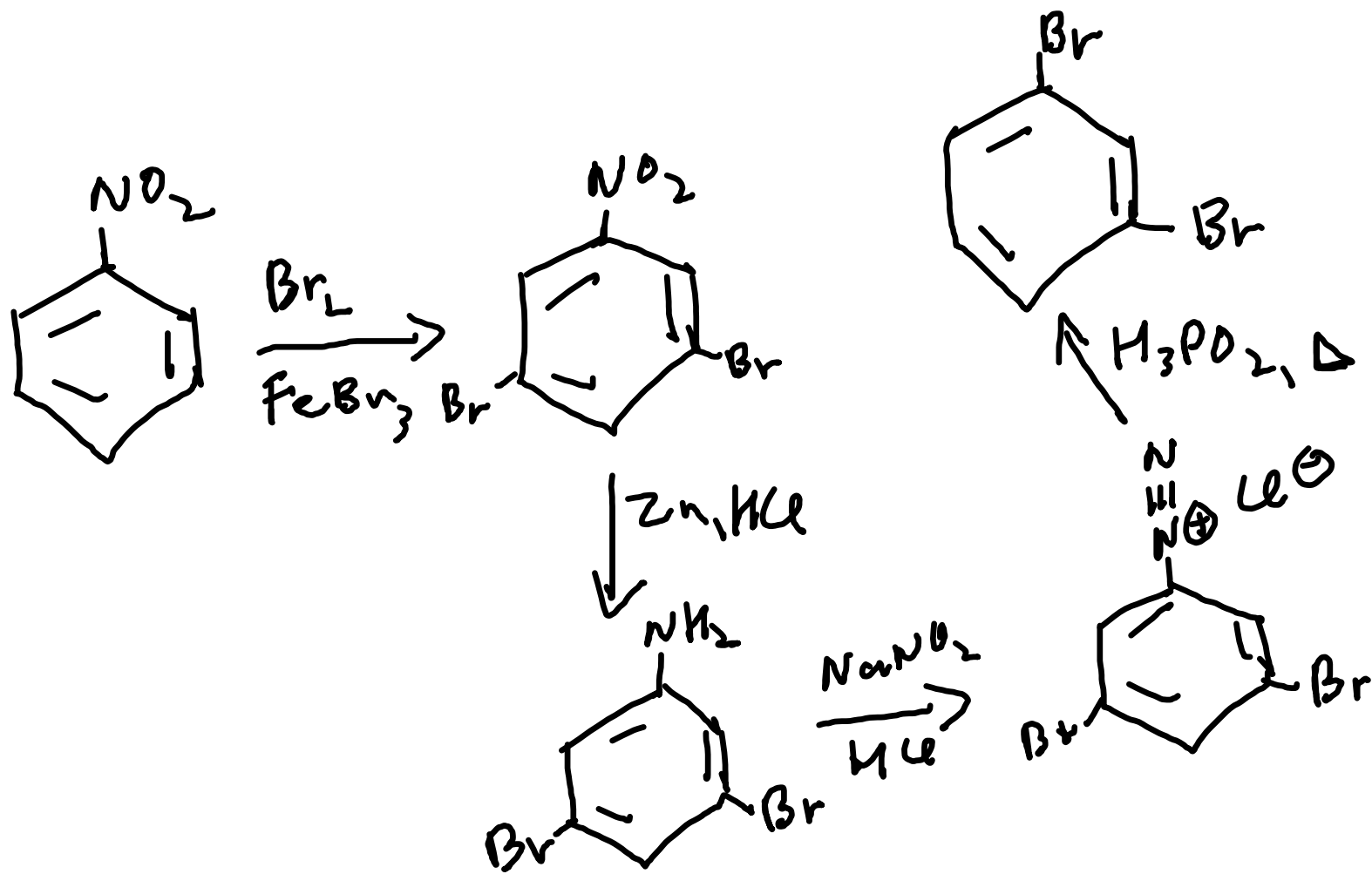
GOOD YIELD



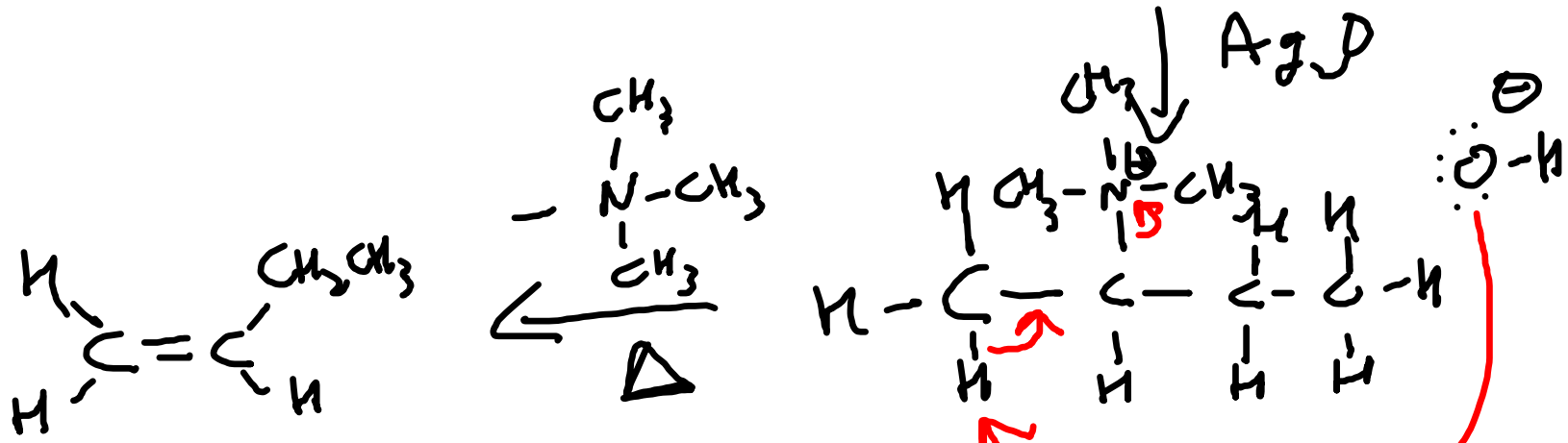
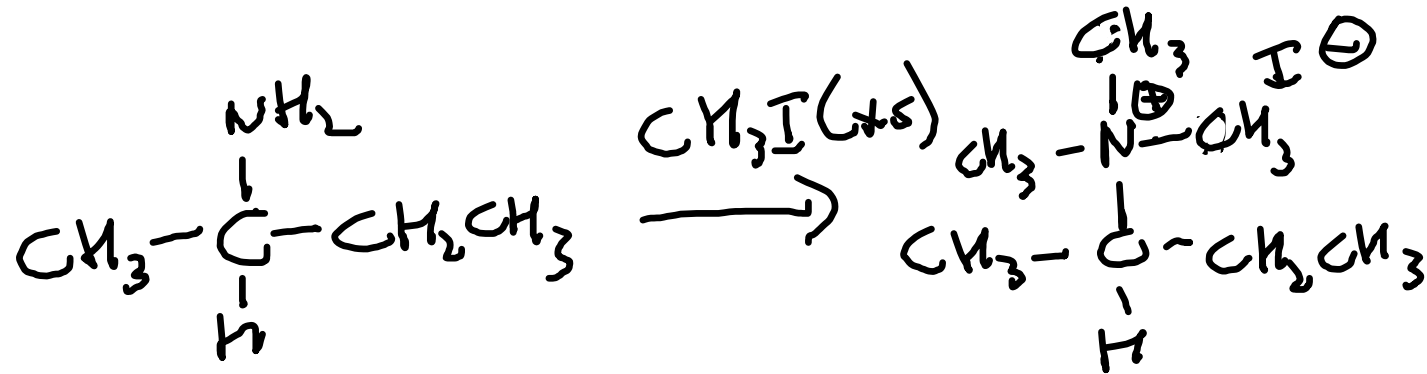








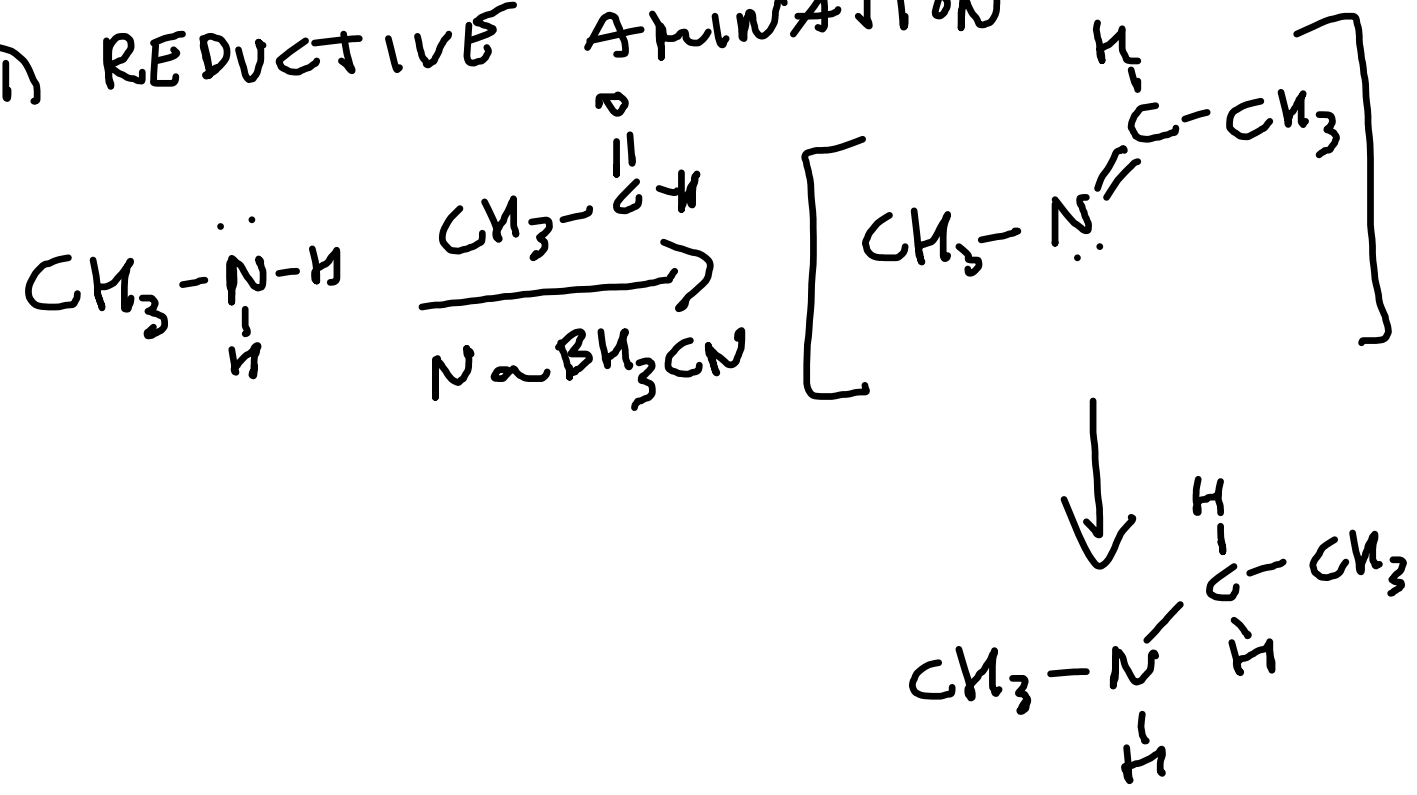
# 5) HOFMANN ELIMINATION



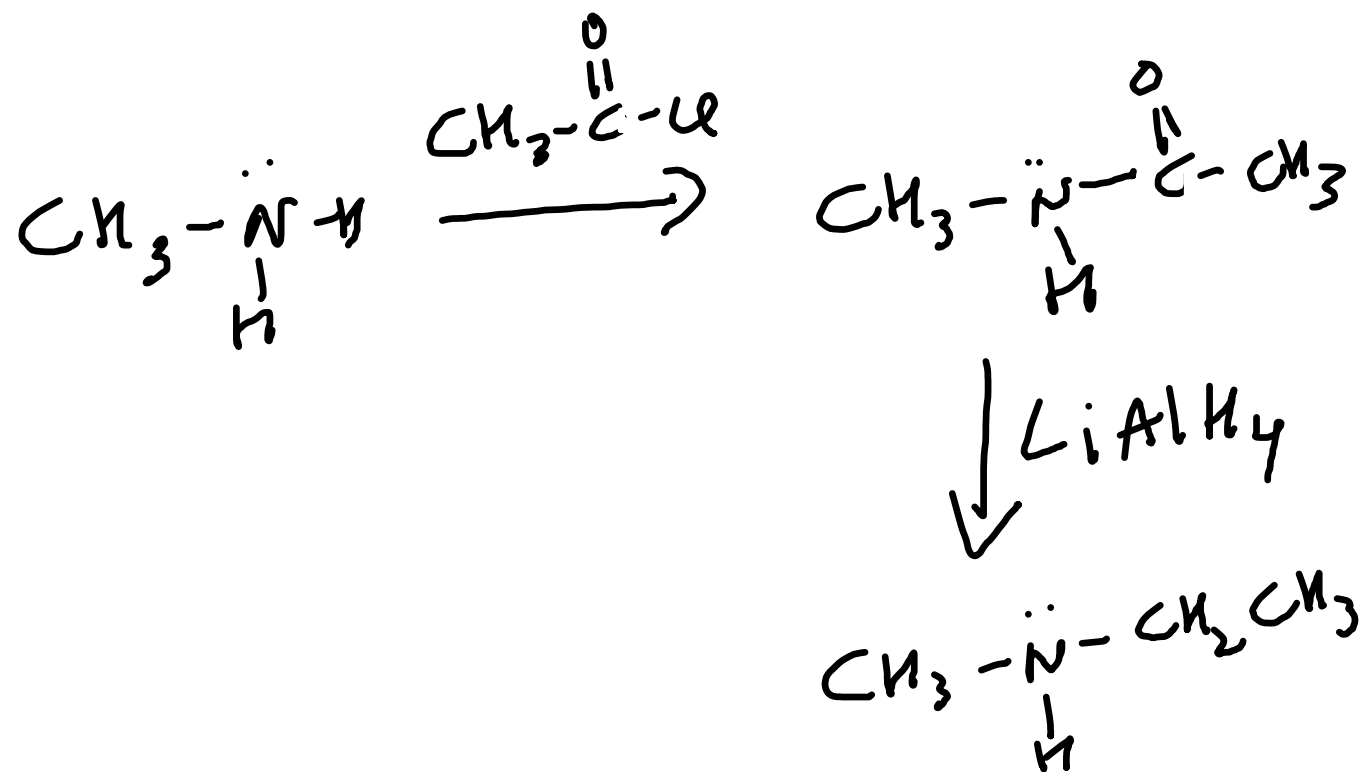
HOFMANN  
PRODUCT MAJOR  
(LEAST SUBSTITUTED)

# SYNTHESIS

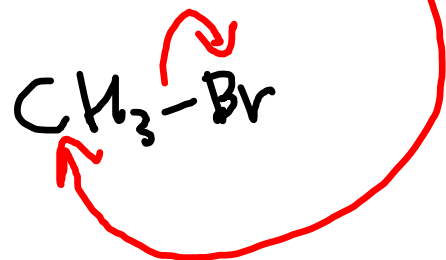
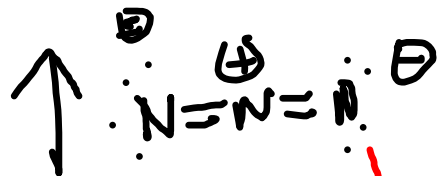
## 1) REDUCTIVE AMINATION



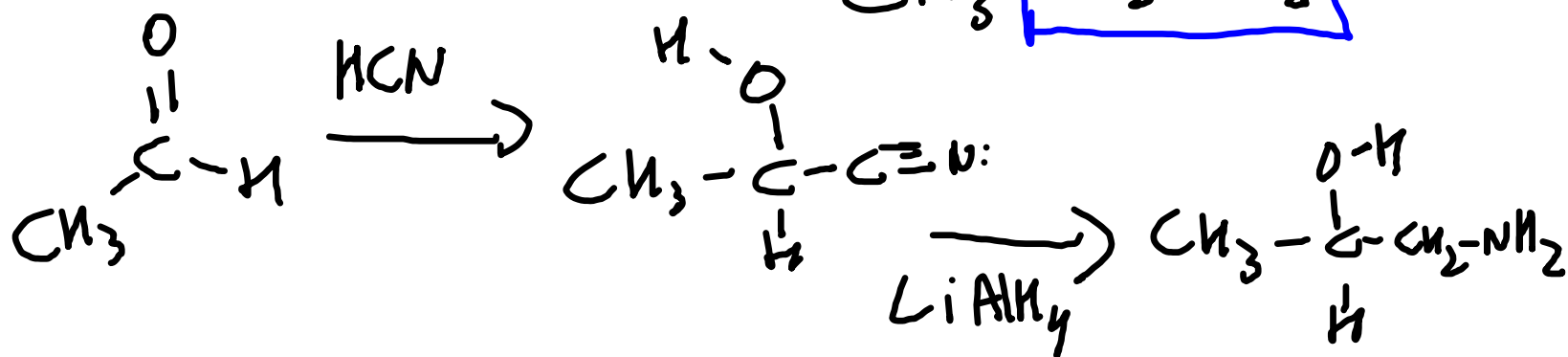
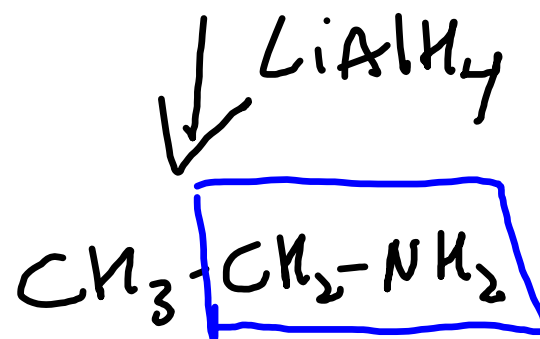
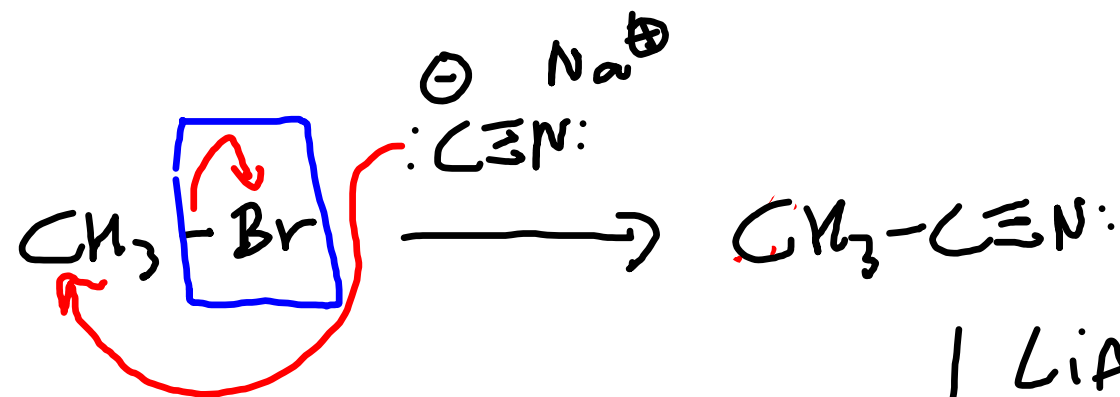
2) ACYLATION THEN REDUCTION



### 3) REDUCTION OF AZIDES



# 4) REDUCTION OF NITRILES



$\beta$ -hydroxy  
amine

# HOFMANN REARRANGEMENT



