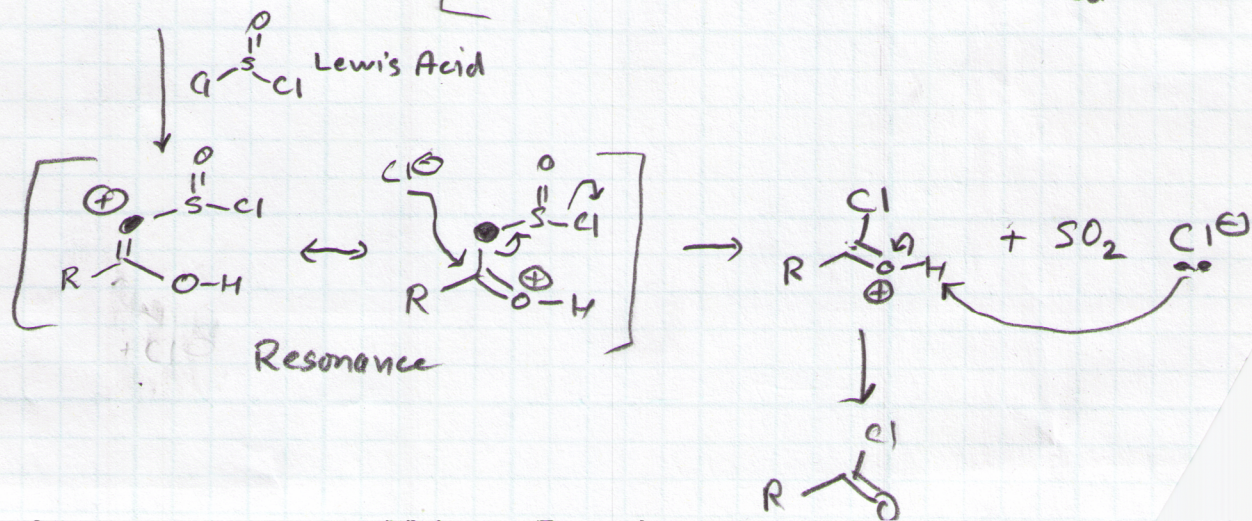
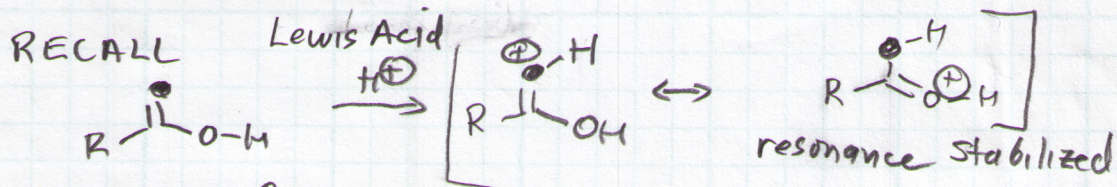
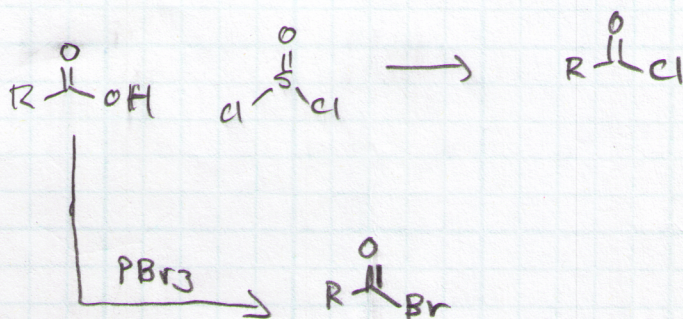
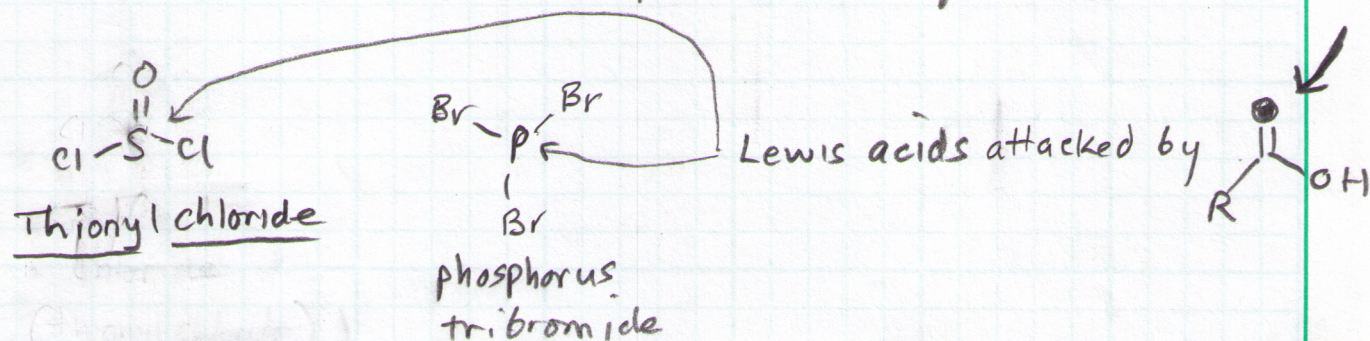
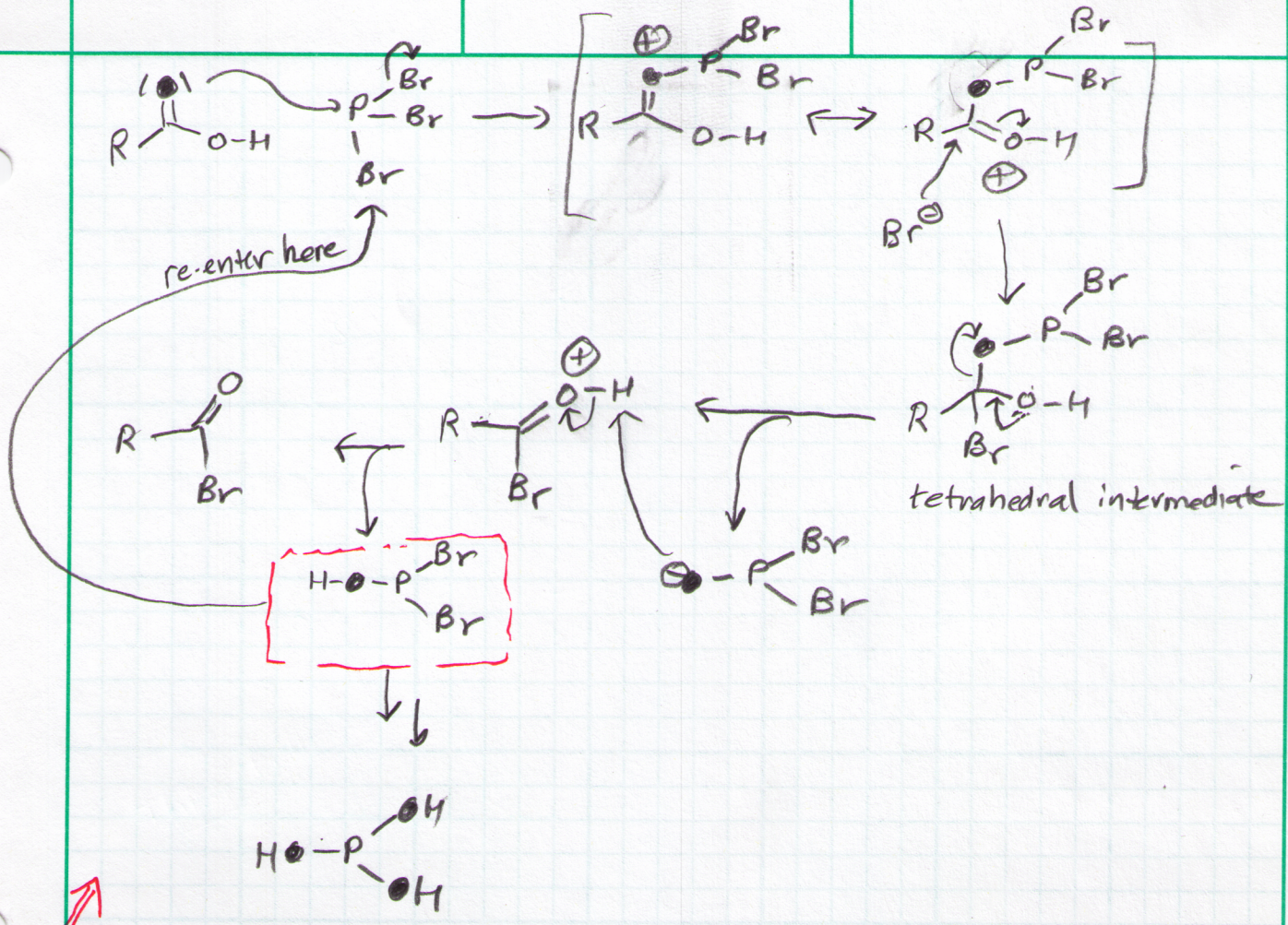
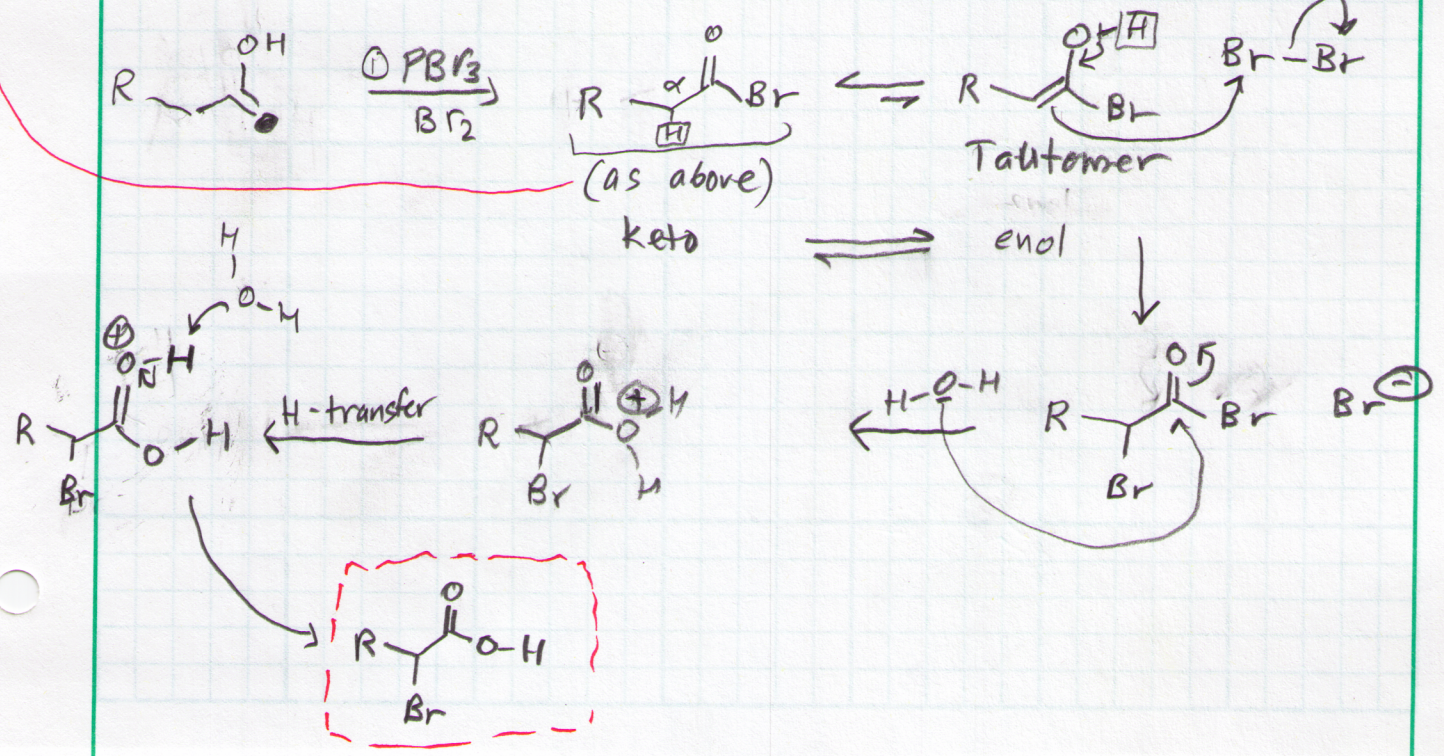


How to place L.g. onto a carbonyl group via a  $R-\overset{\text{O}}{\parallel}{C}-OH$

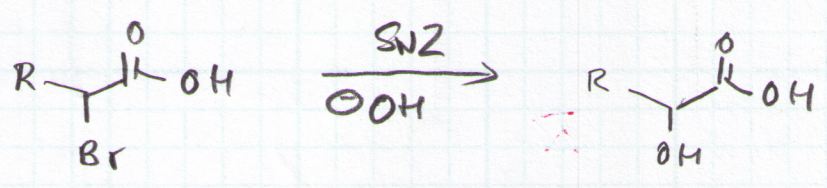




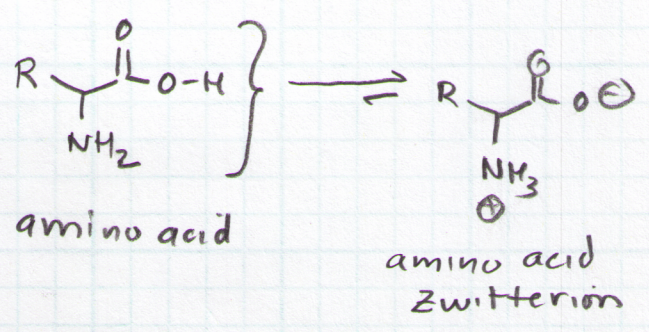
Hell - Volhard - Zelinsky Rxn. Monobromination of a carboxylic acid via  $PBr_3$  and  $Br_2$



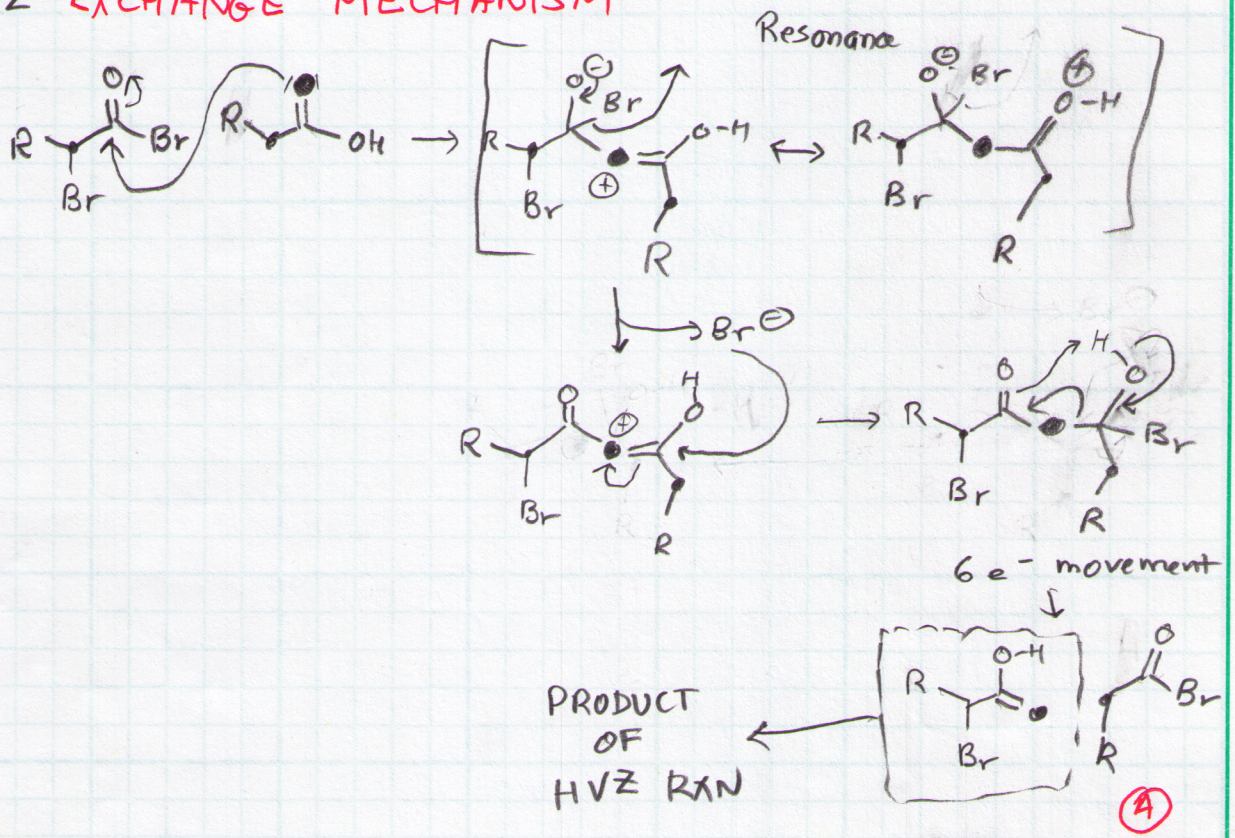
From HVZ product on previous page



↓  
:NH<sub>3</sub> in H<sub>2</sub>O  
SN2



### HVZ EXCHANGE MECHANISM



④  
on previous page  
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