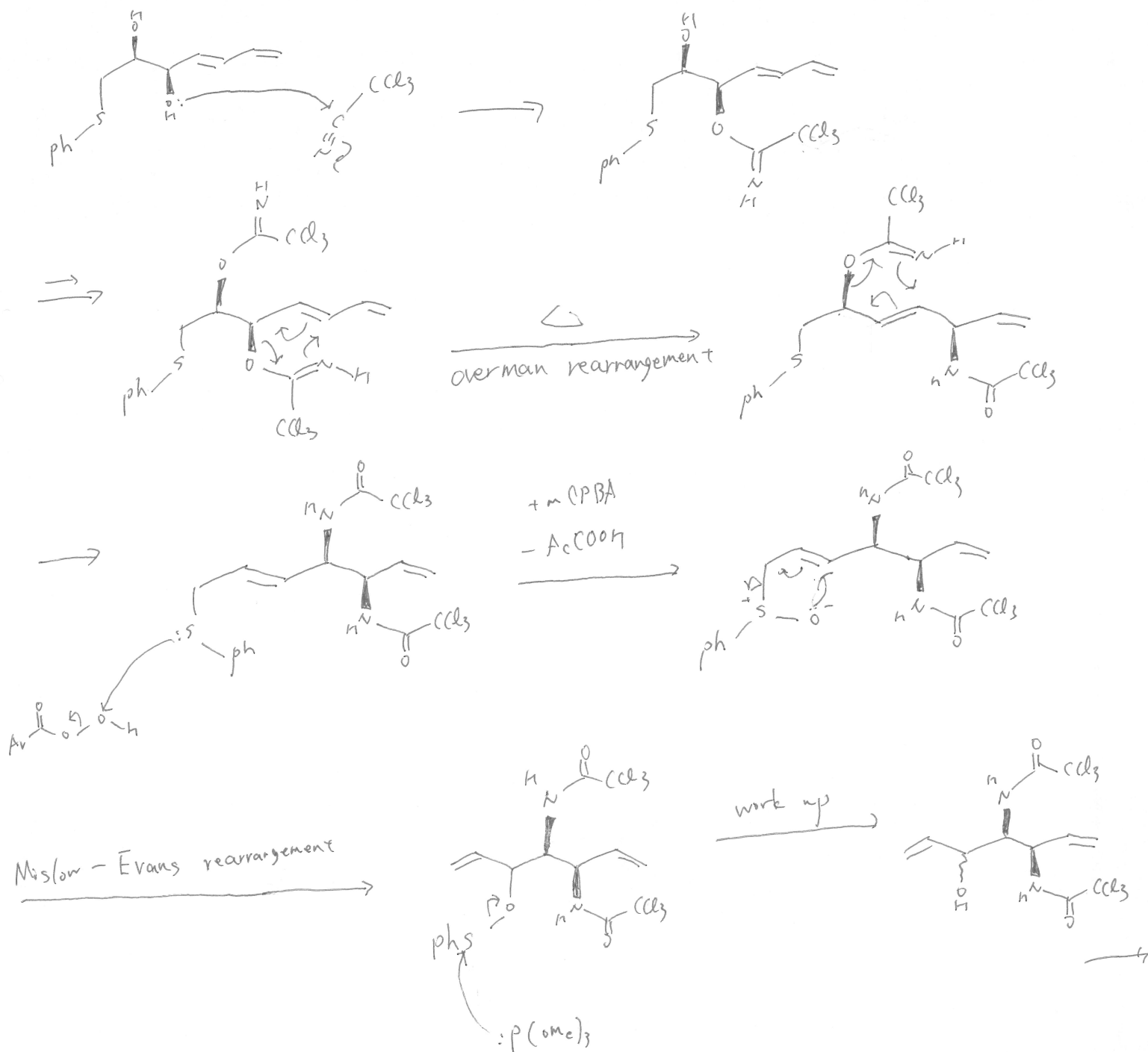
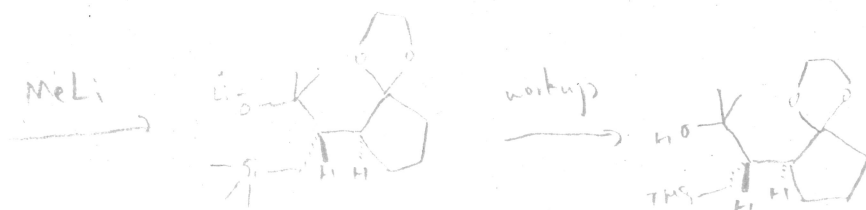
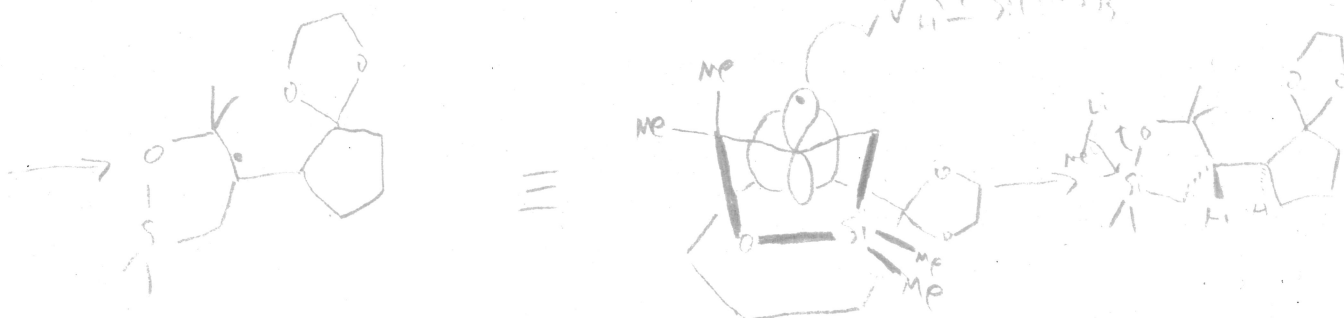
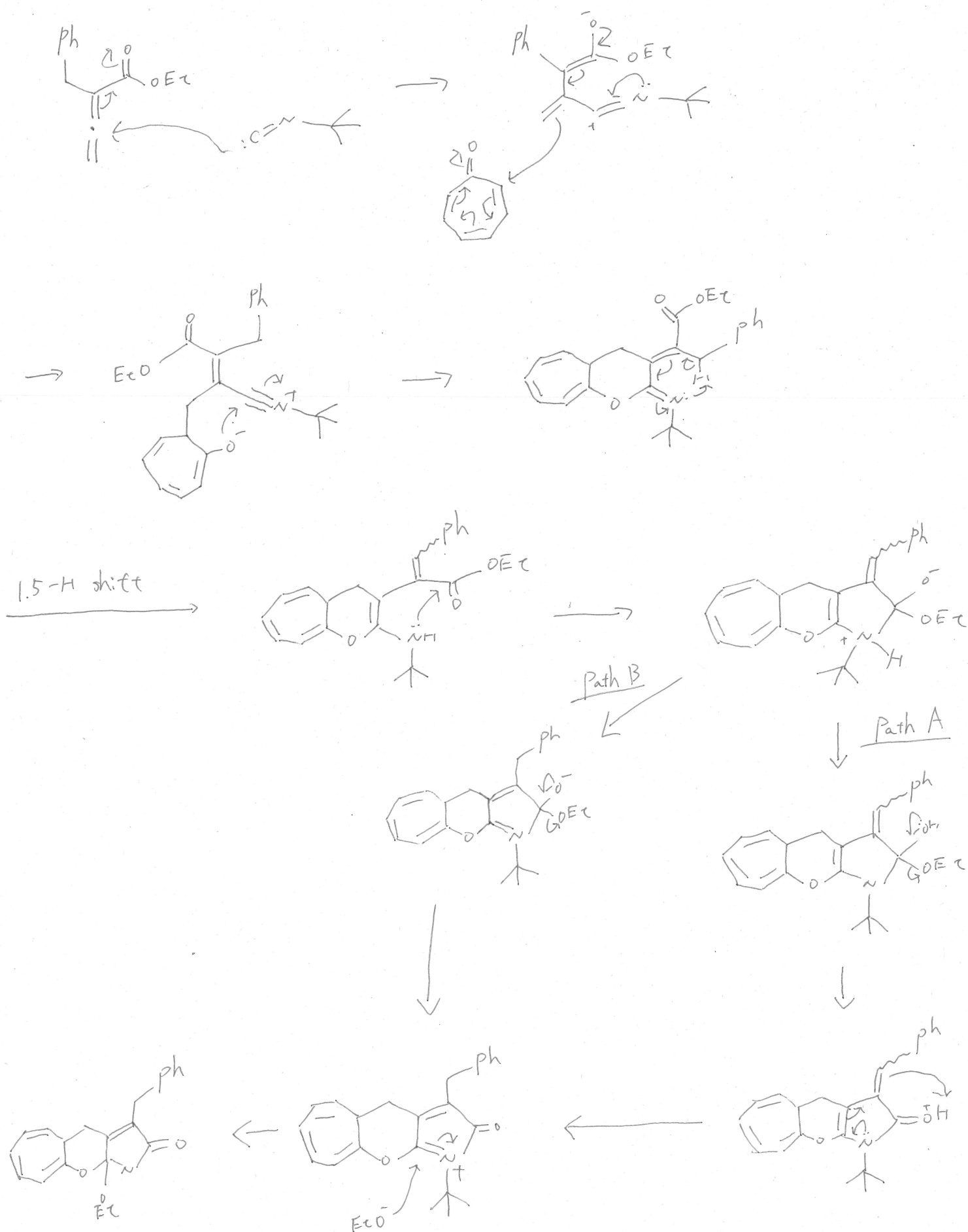


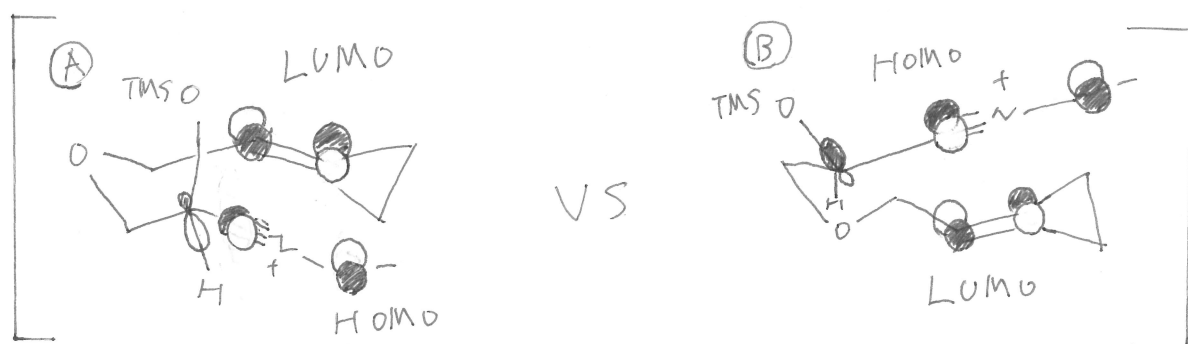
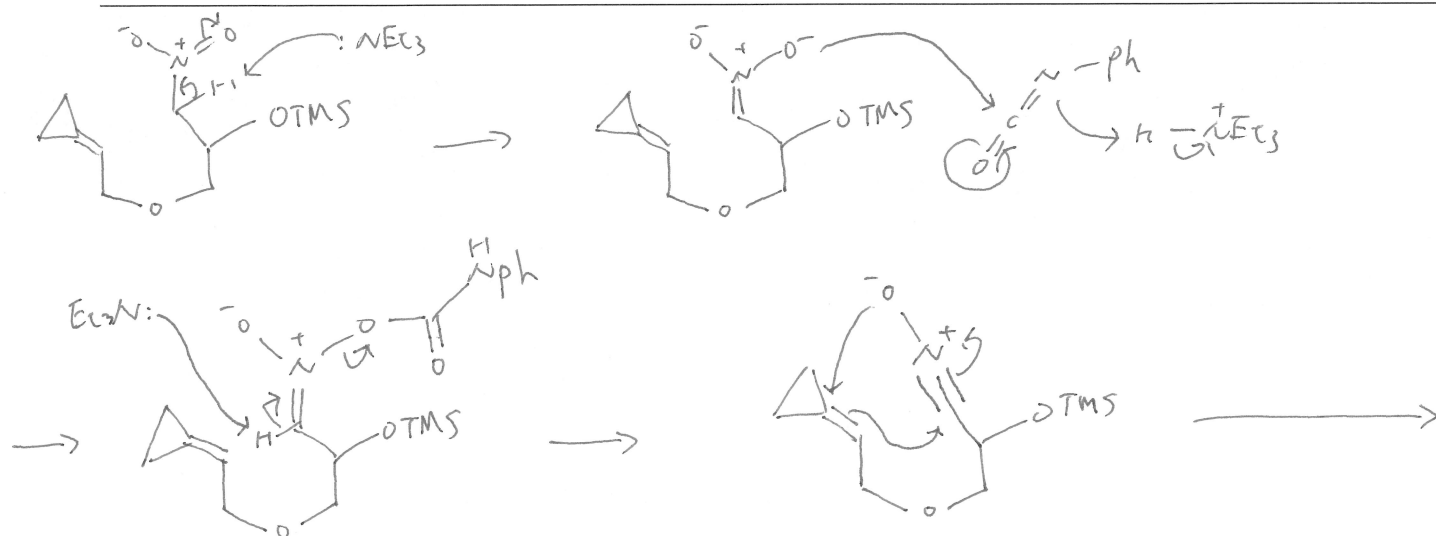
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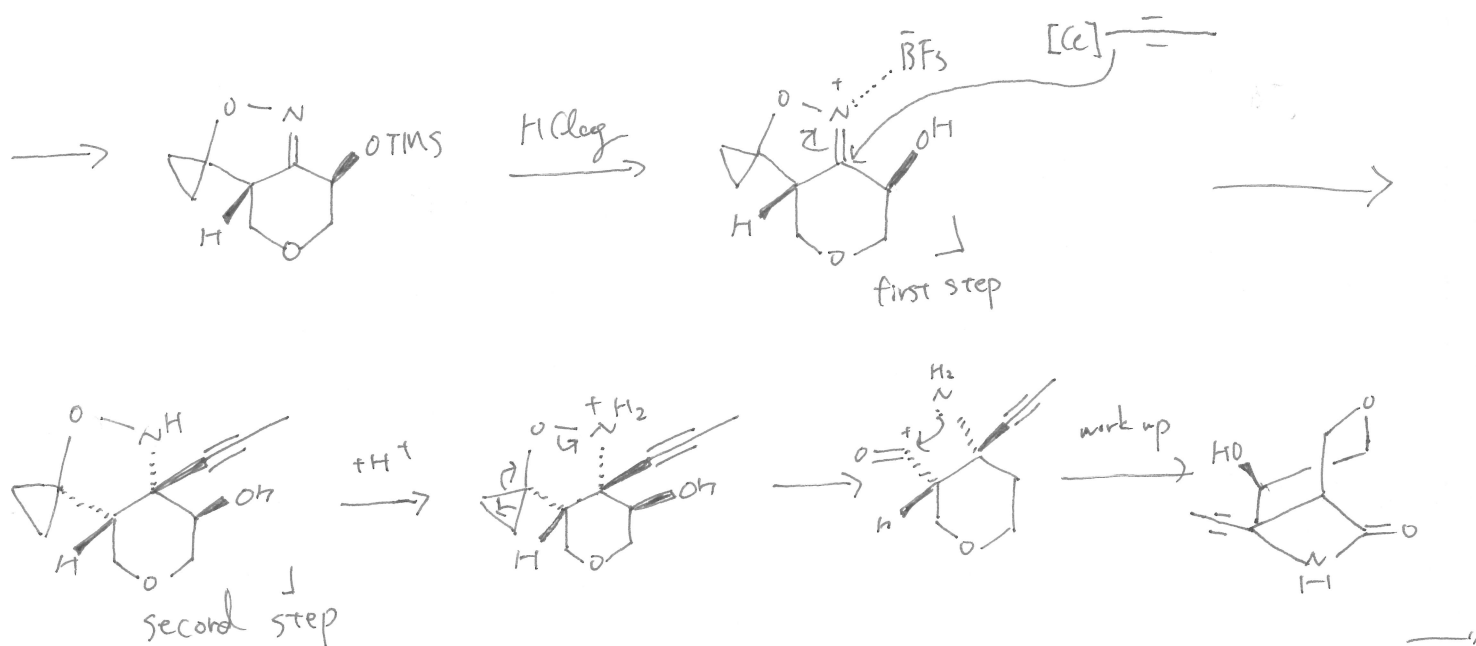


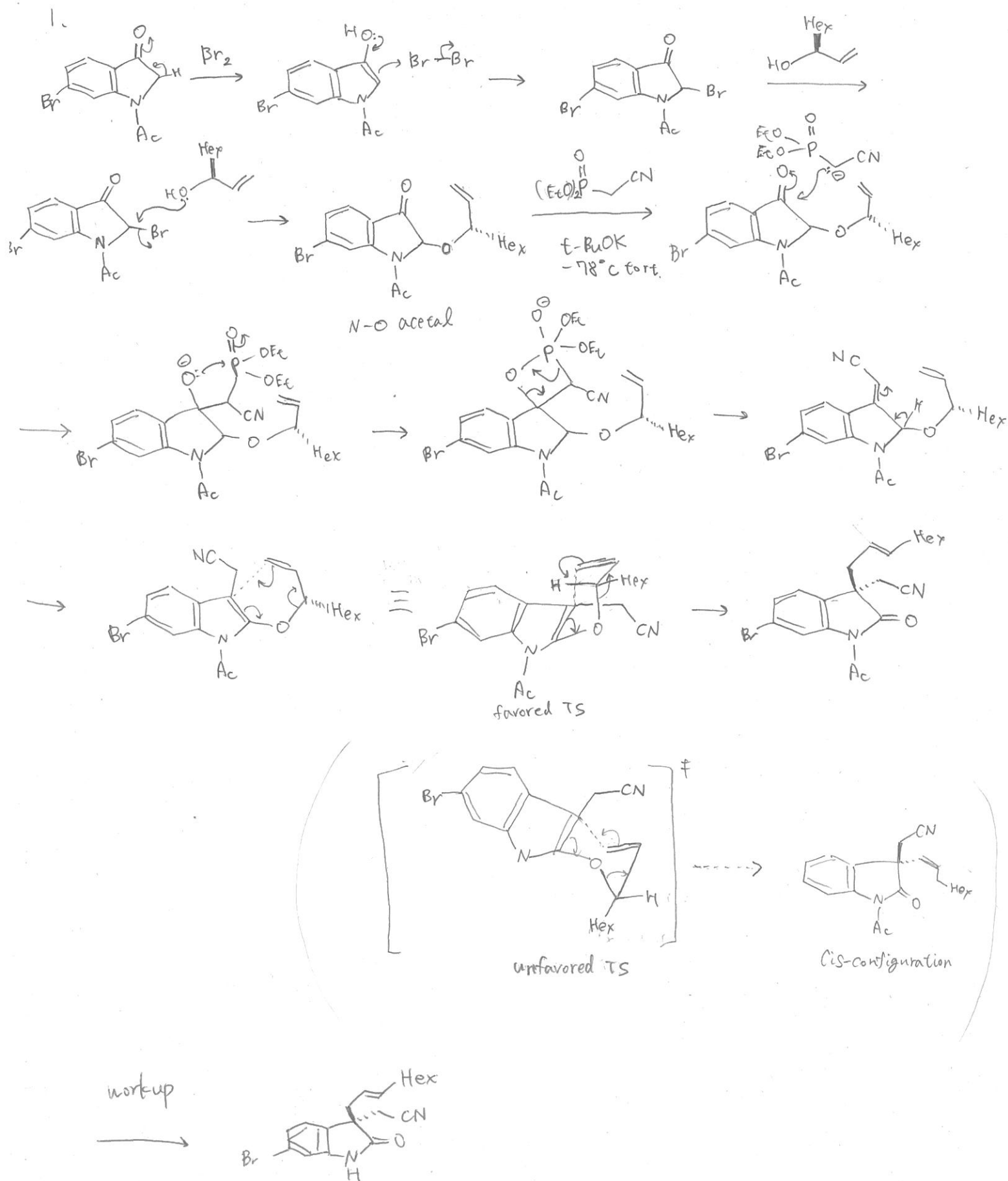


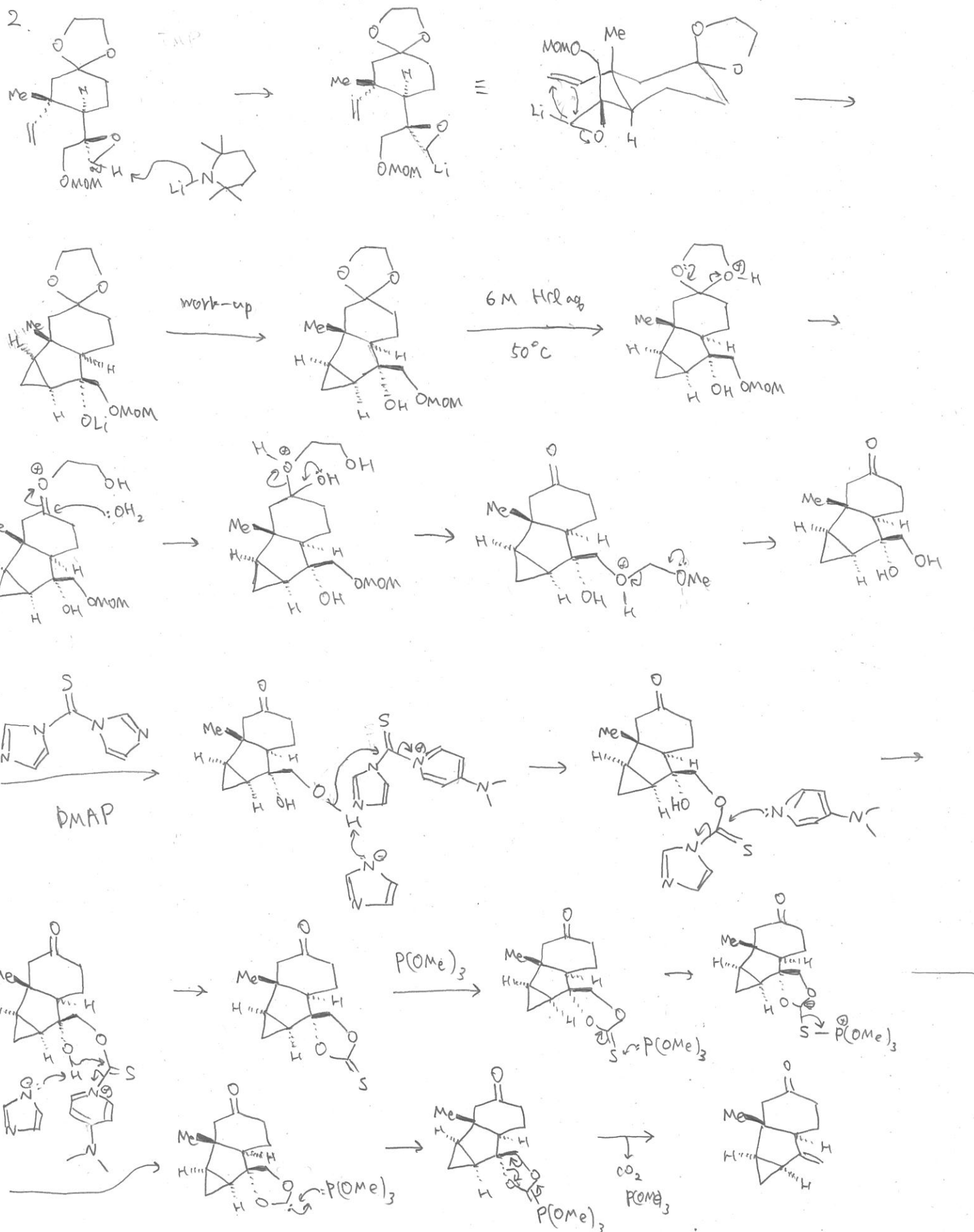
4


 $\text{HOMO}_{\text{DIPOLE}} \rightarrow \sigma^*_{\text{C-H}}$
 $\text{HOMO}_{\text{DIPOLE}} \rightarrow \sigma^*_{\text{C-O}}$

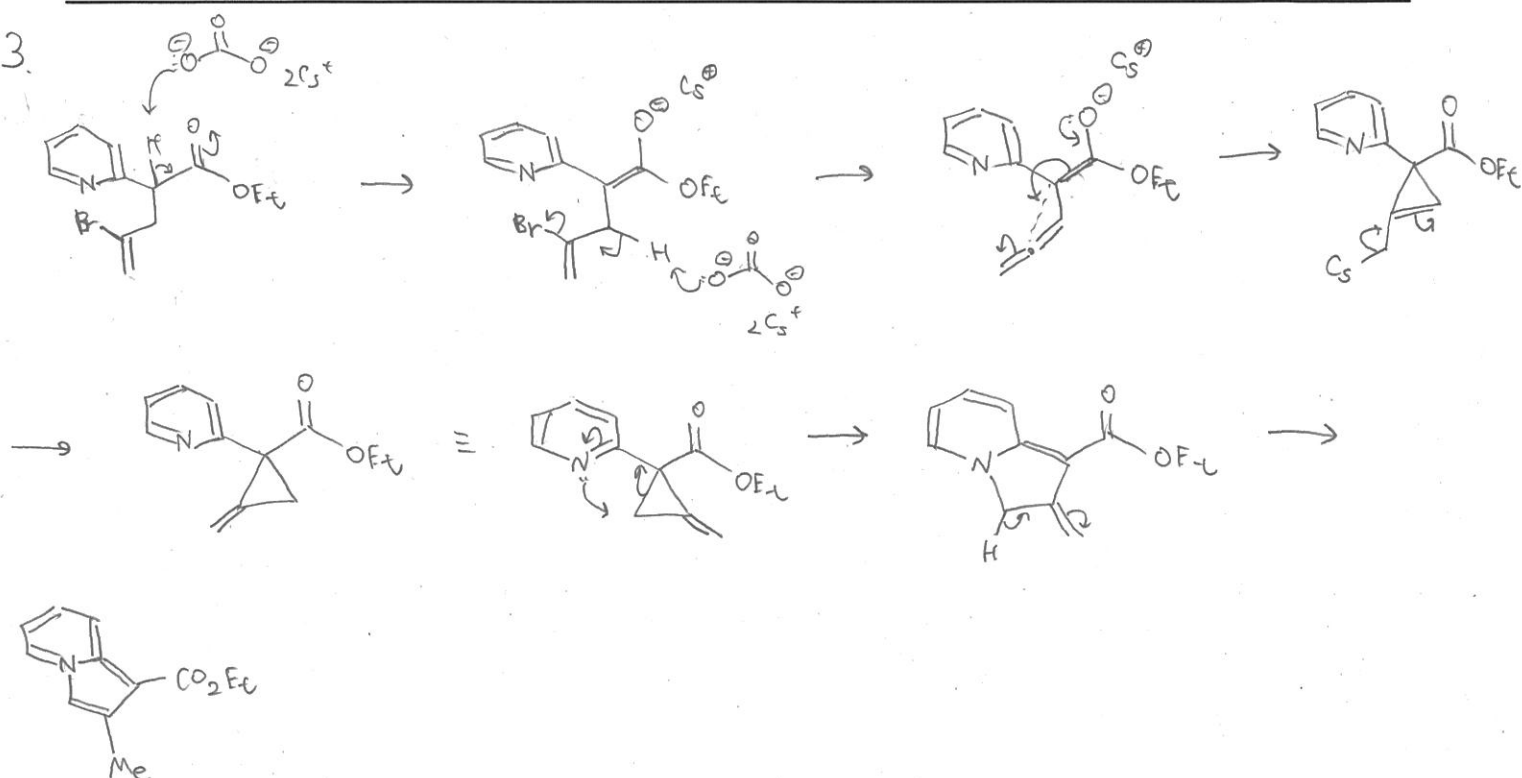
$$\Delta G(\text{activation}) \text{ (A)} < \Delta G(\text{activation}) \text{ (B)}$$

 $\sigma^*_{\text{C-O}}$ stabilizes HOMO of the dipole.


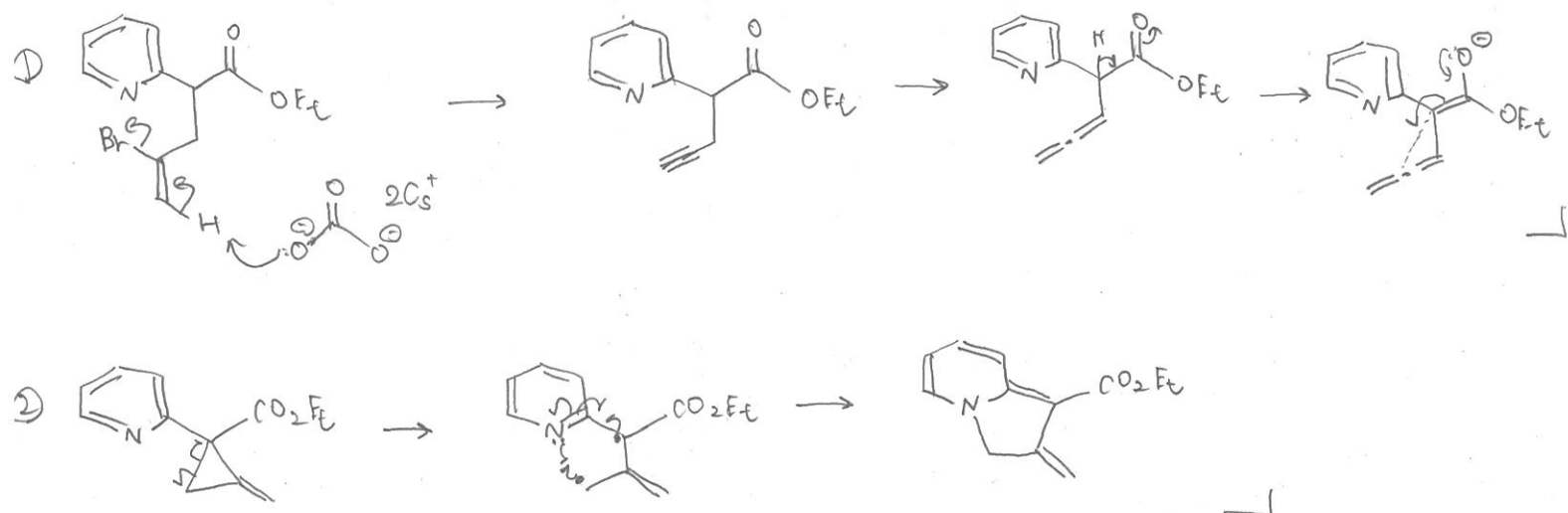


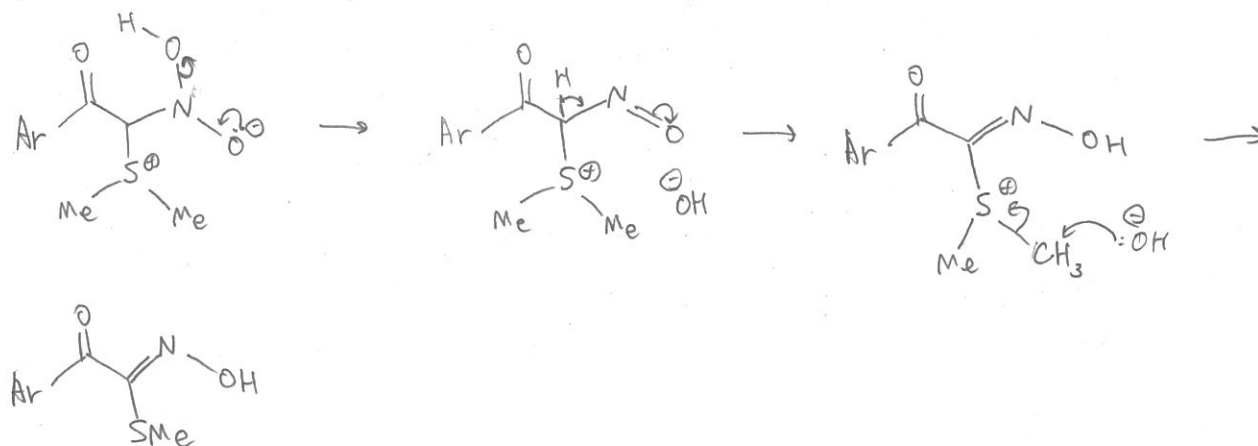


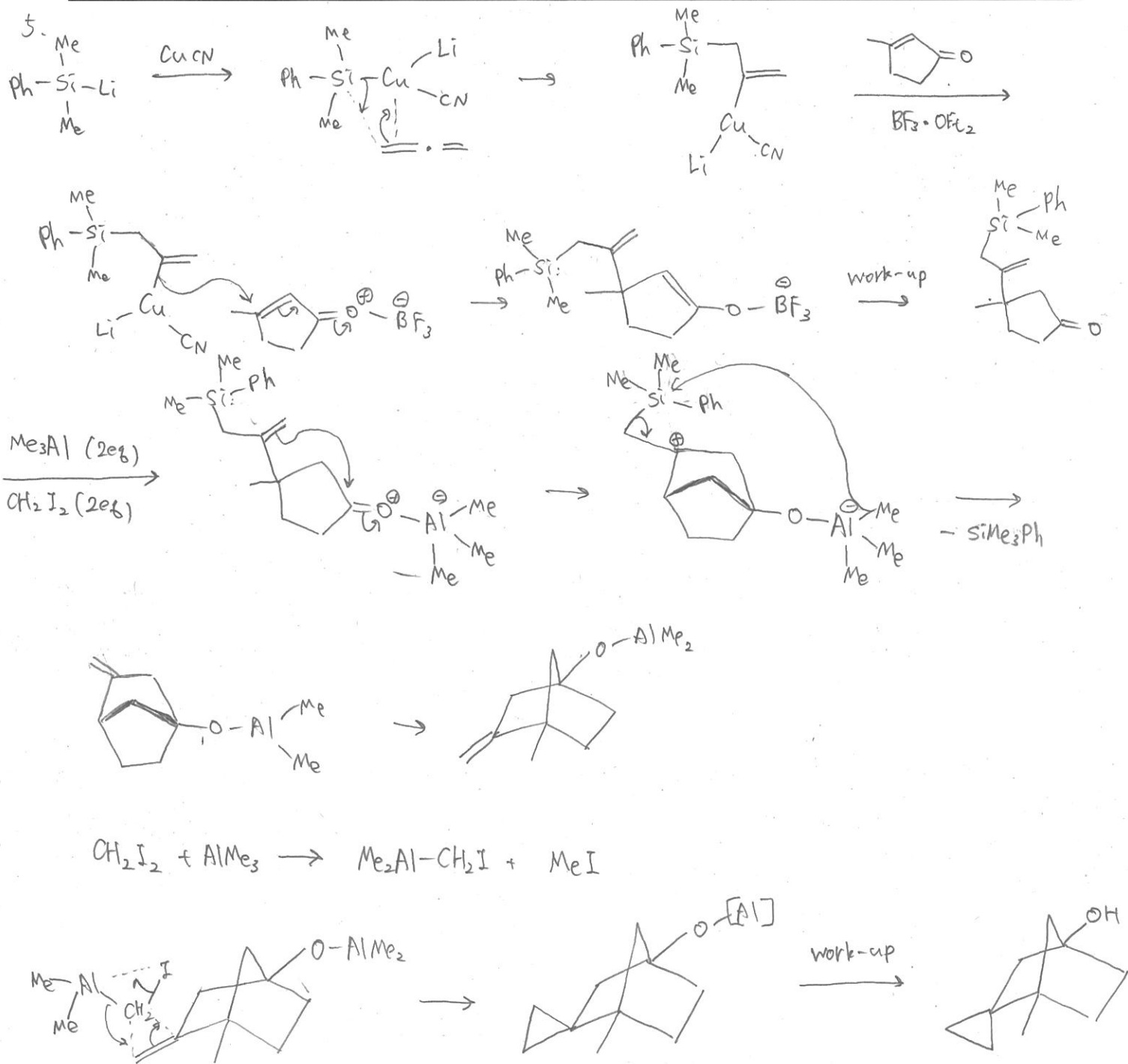
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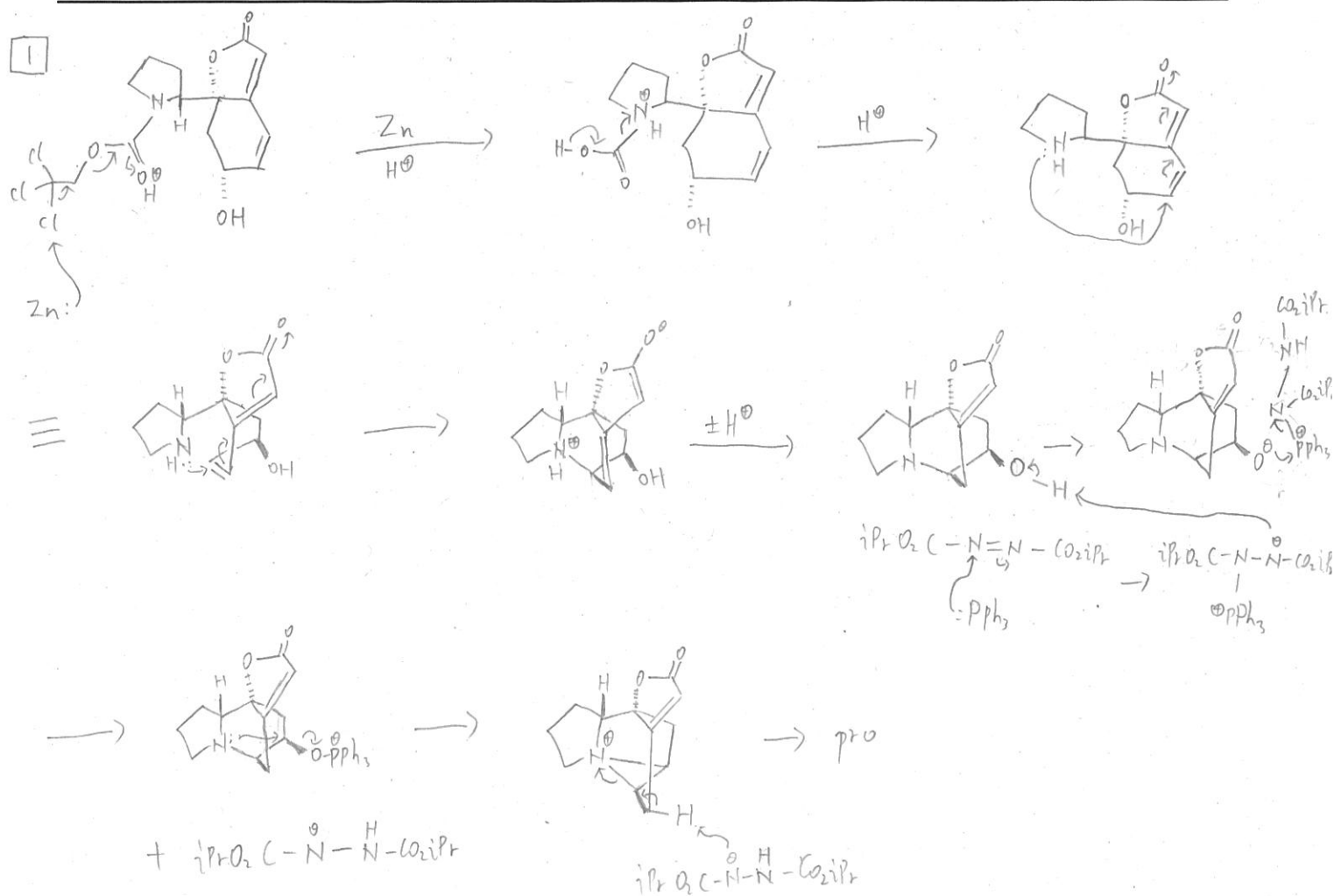


other supposed reaction pathways

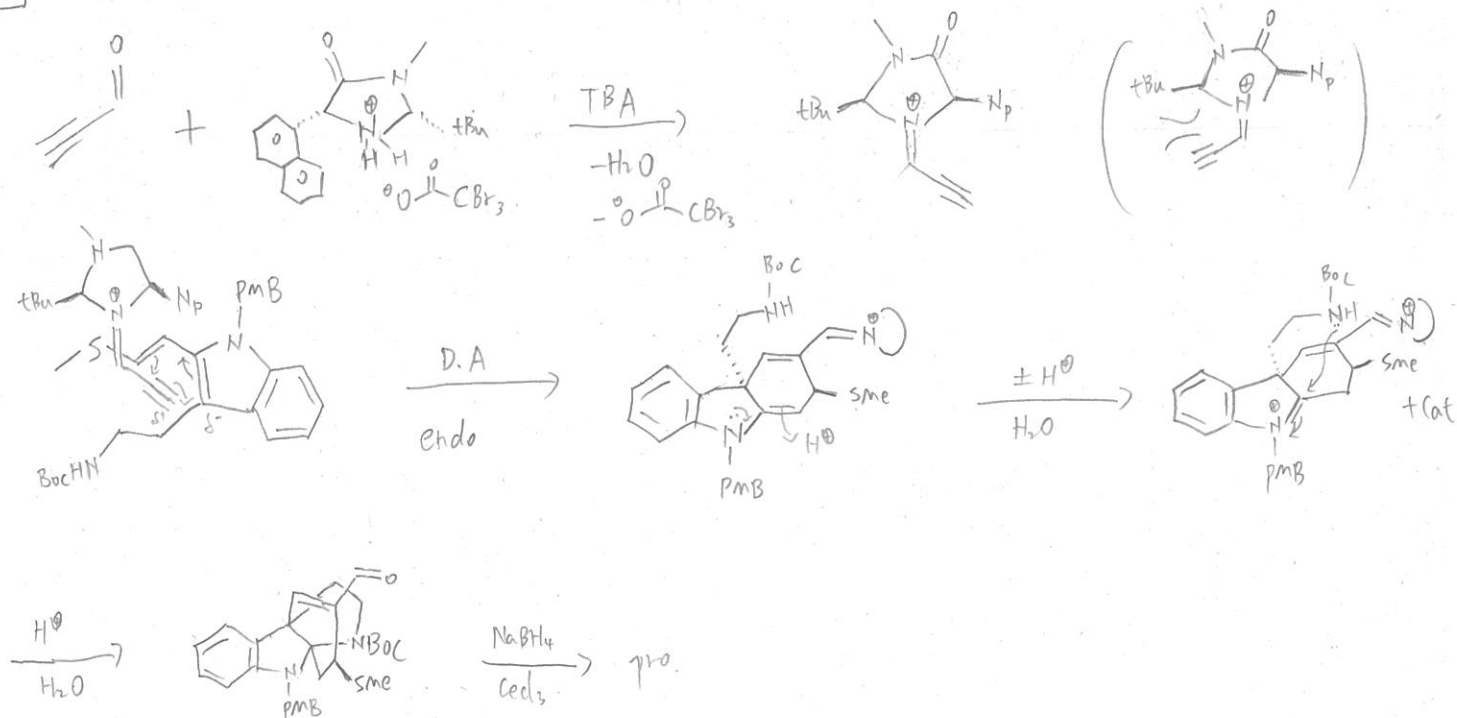


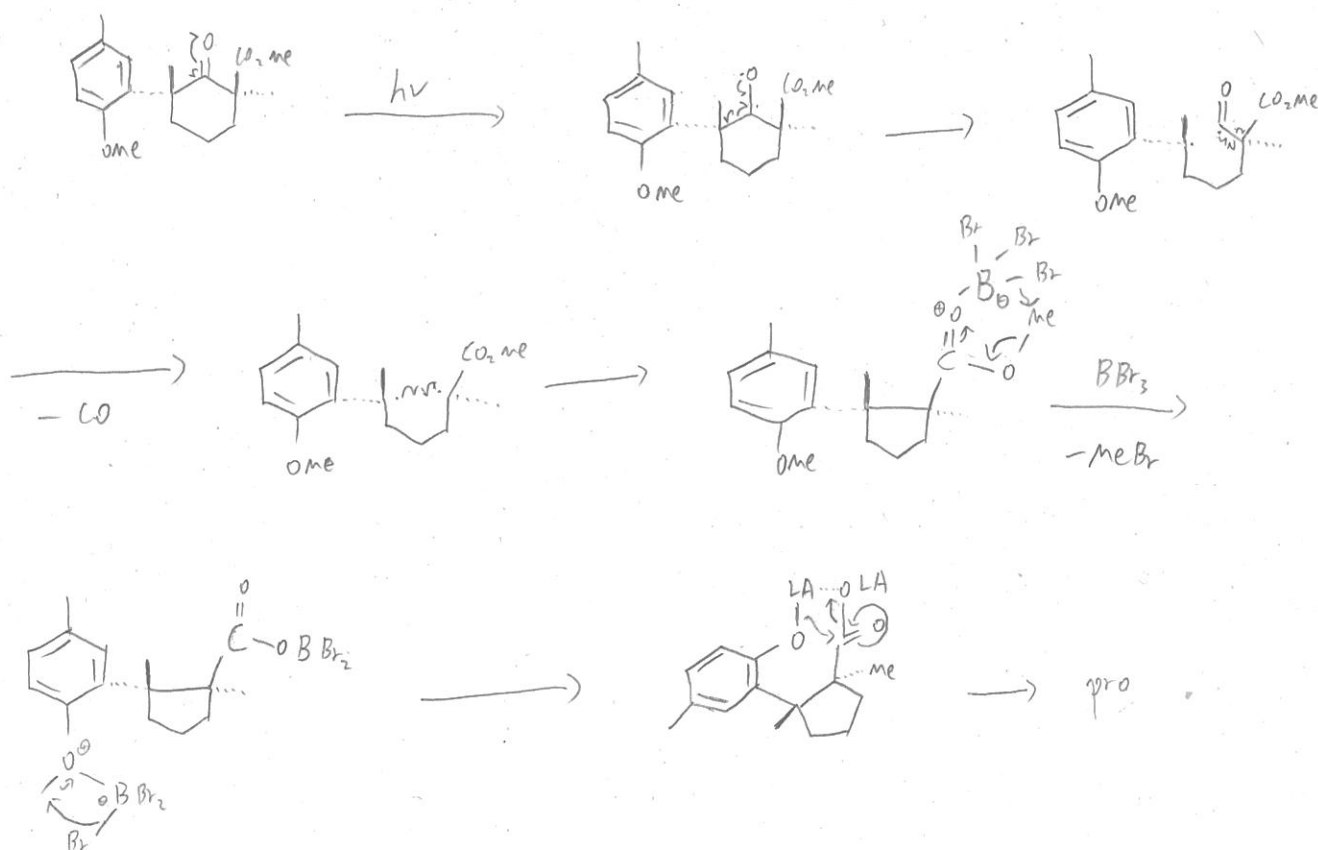




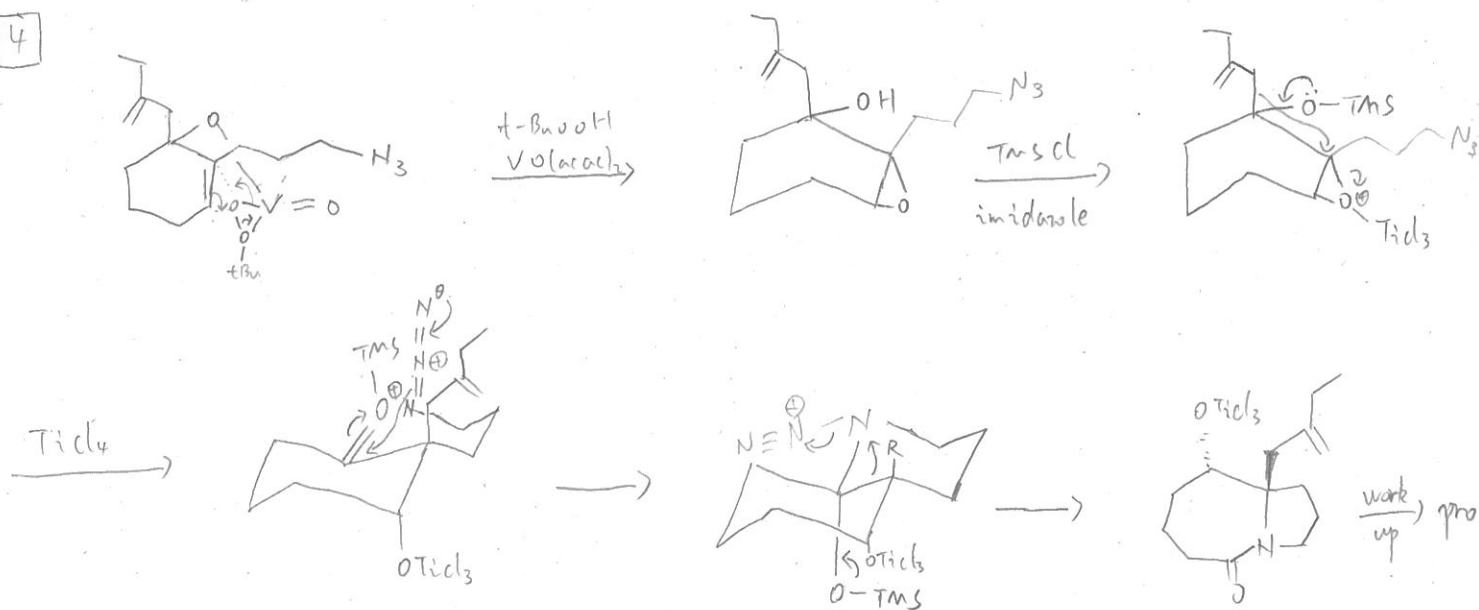


2





4



5

