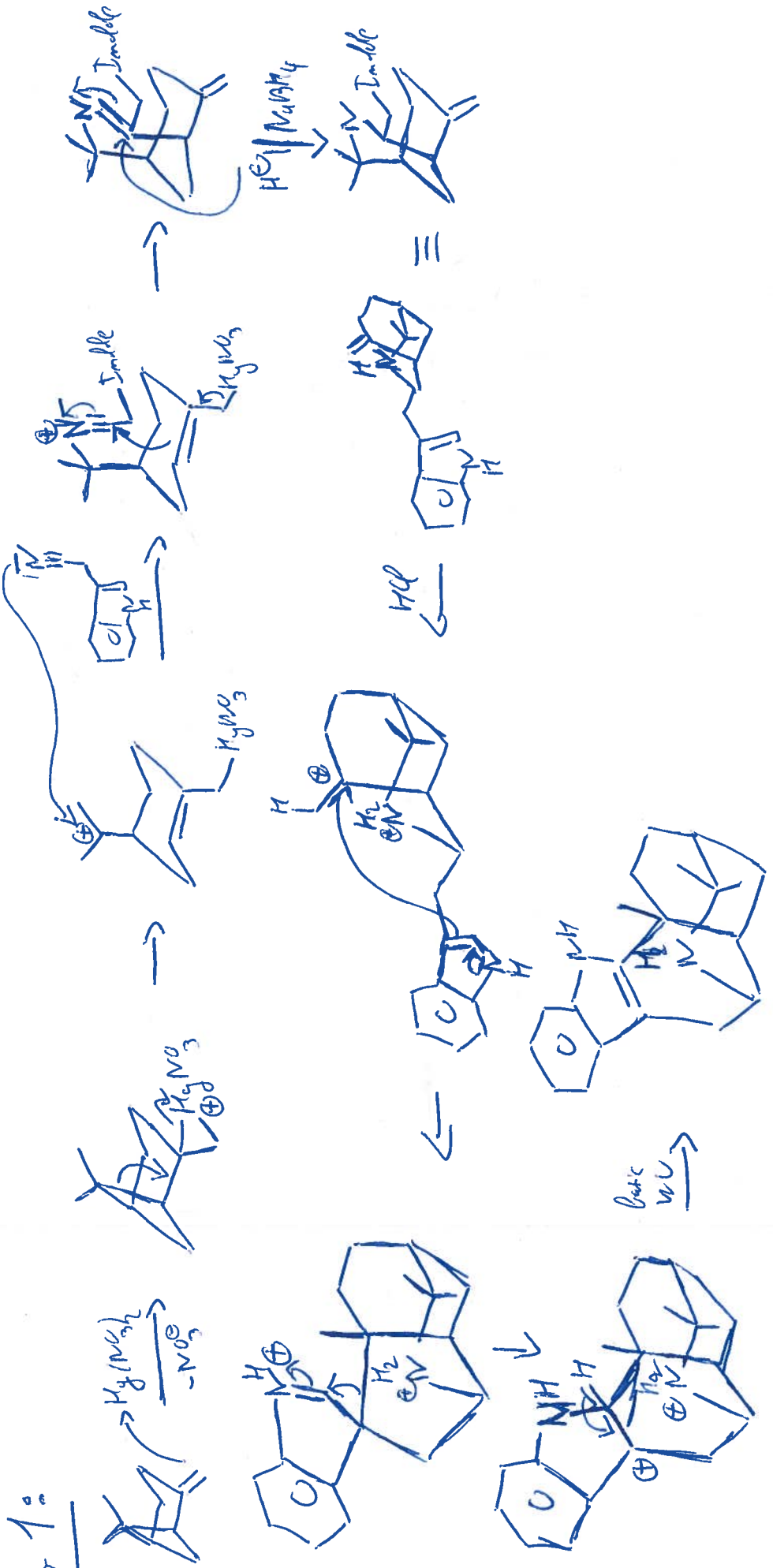
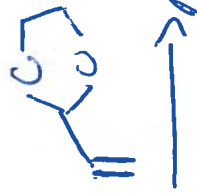
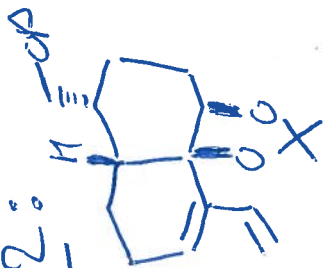


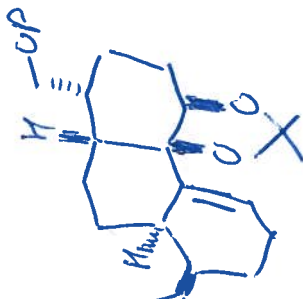
Exo 1:



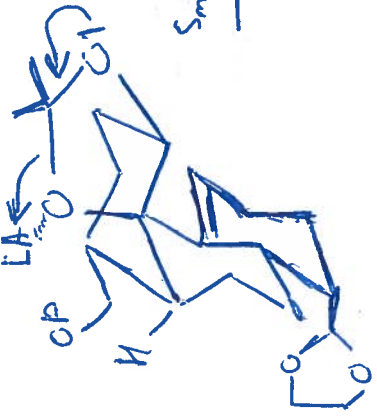
Exo 2:



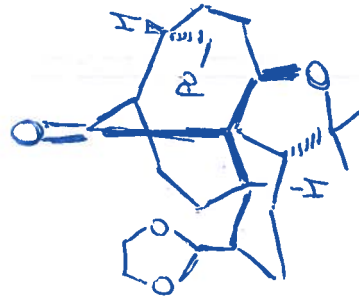
Endo DA



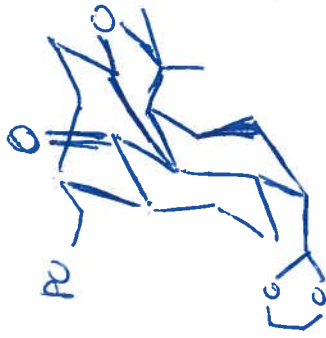
≡



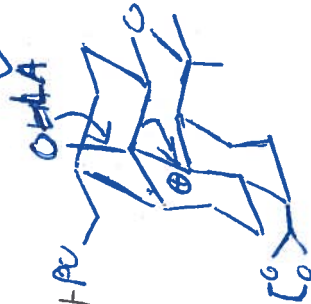
Smile



≡

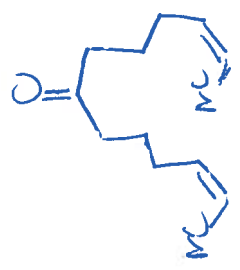


Pinins

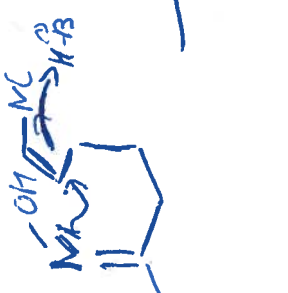


Orbital alignment + PO  
with bond  
made  
Pinacol reorg.

Exo 3:



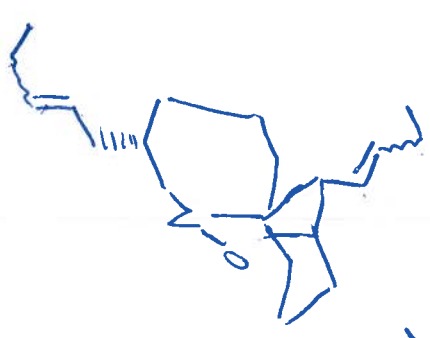
$\xrightarrow[\text{Condensation}]{\text{Me}_2\text{OH}}$



$\xrightarrow{\Delta (190^\circ\text{C})}$

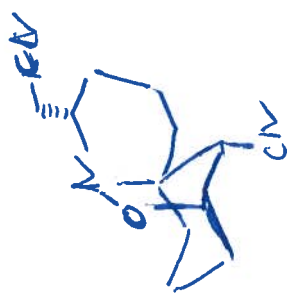
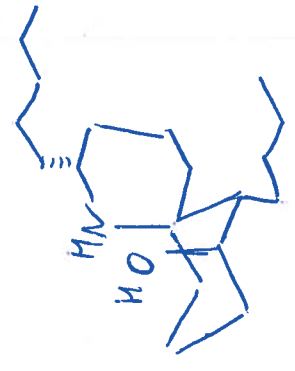


$\xrightarrow[\text{H}_2, \text{H}_2\text{O}]{\text{DIBAL}}$

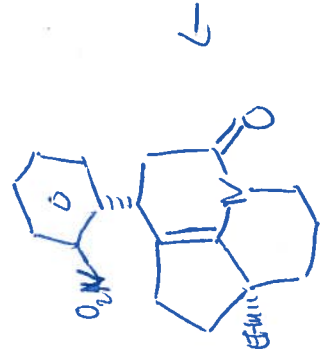
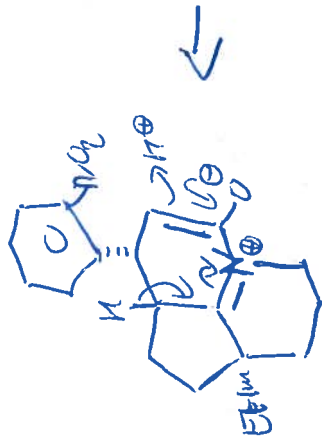
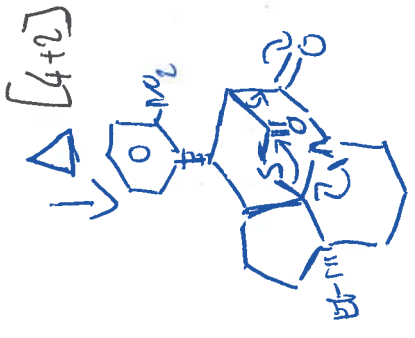
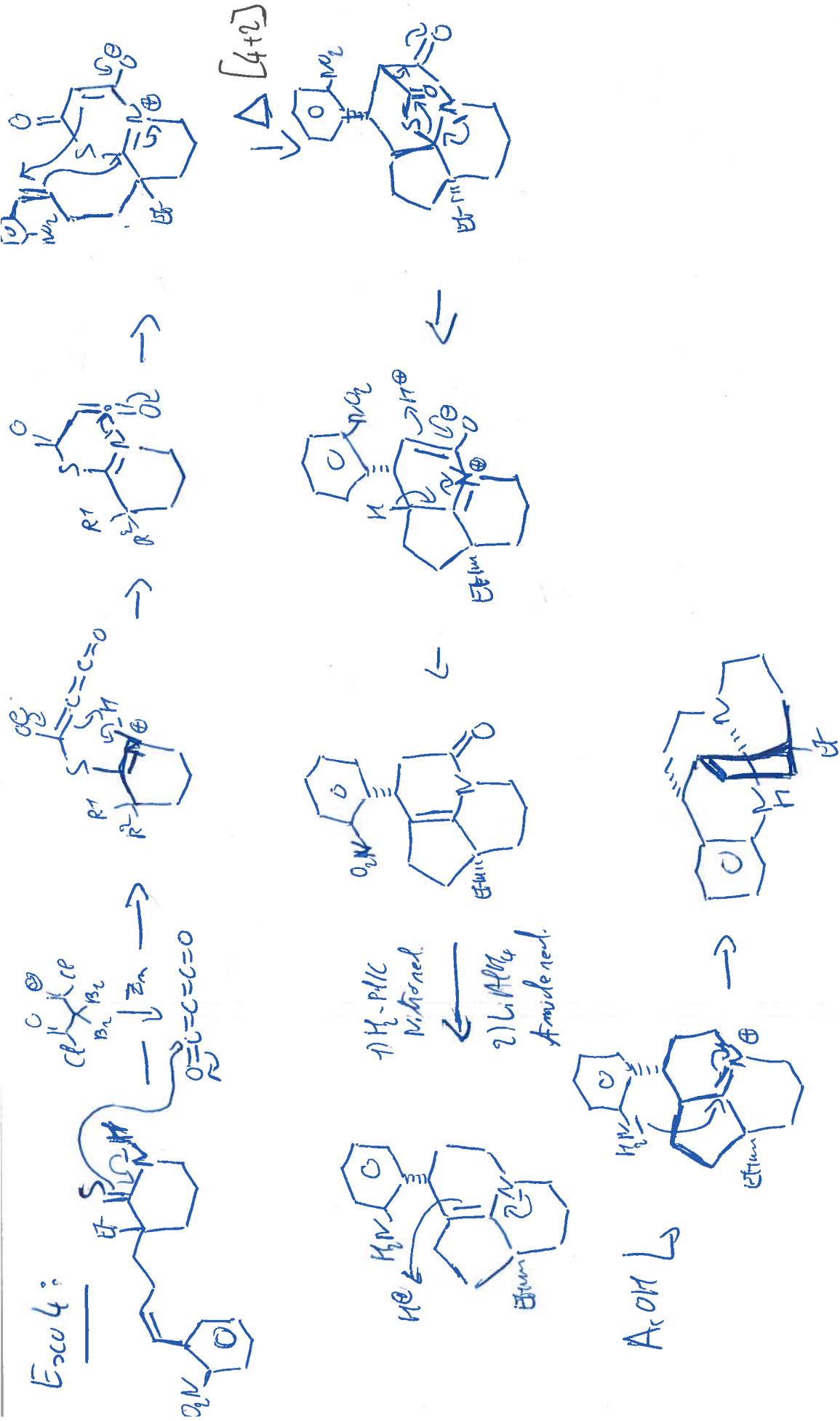


$\xrightarrow[\text{H}_2, \text{Me}_2\text{S}]{\text{PPh}_3}$

$\xrightarrow[\text{Pd/C}]{\text{H}_2}$

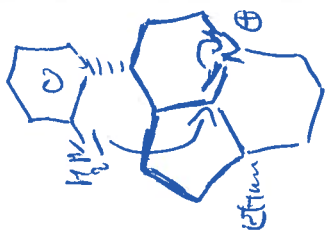


Ex 4:



1)  $\text{H}_2-\text{Pd/C}$   
 Reduction

2)  $\text{LiAlH}_4$   
 Amide red.



AcOH

Exo 5:

