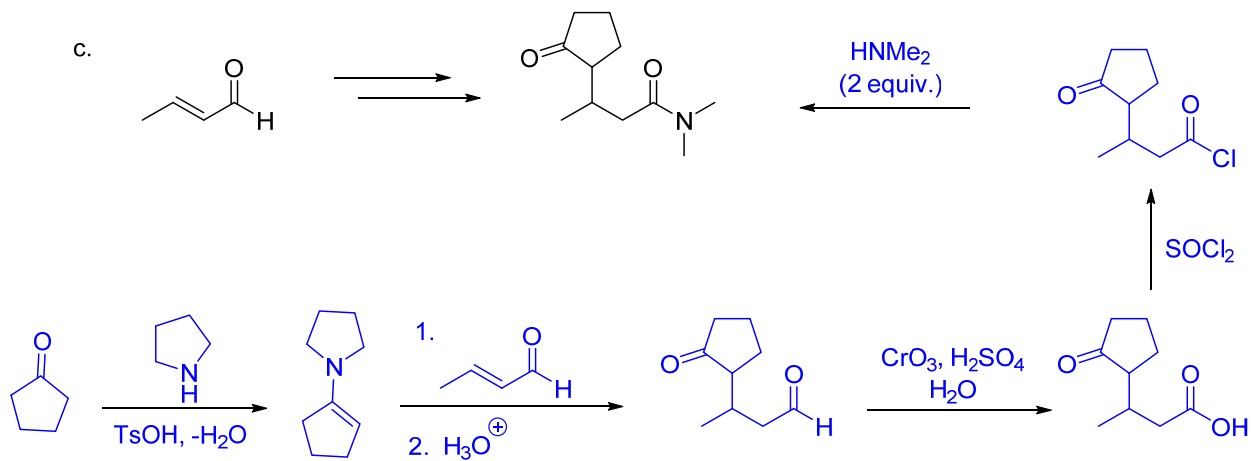
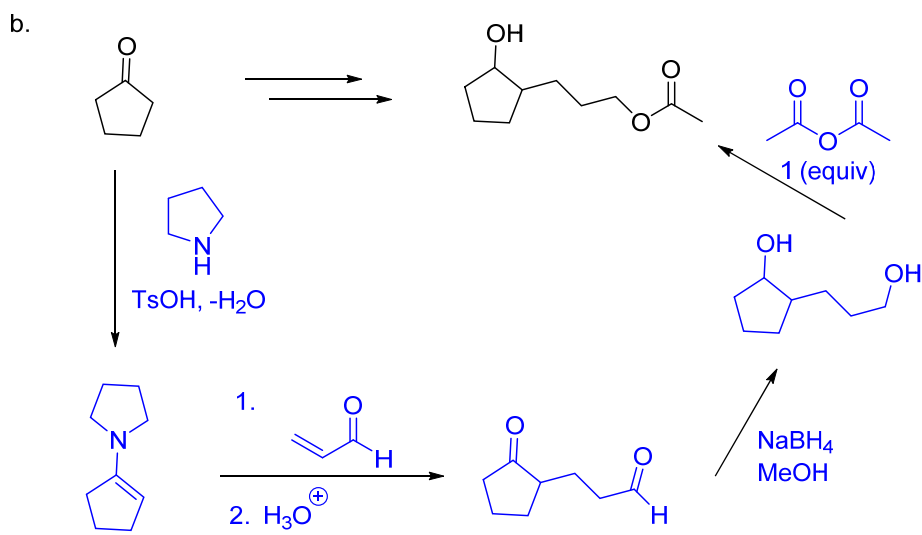
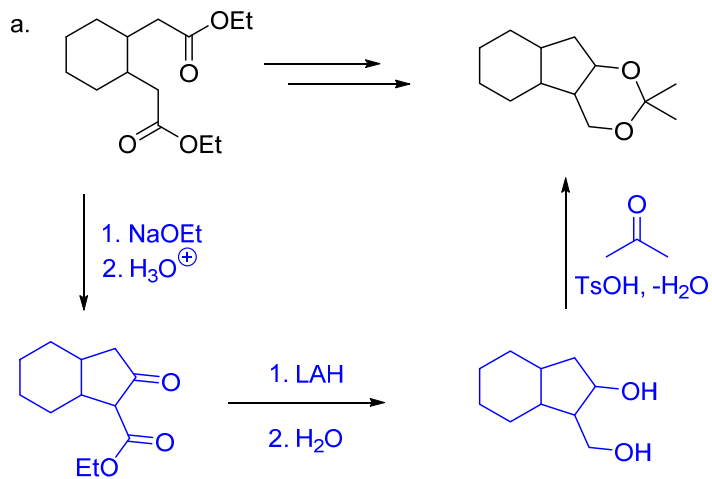
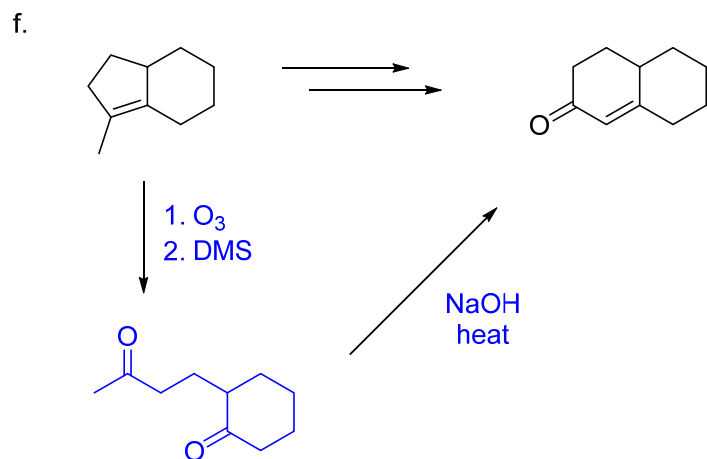
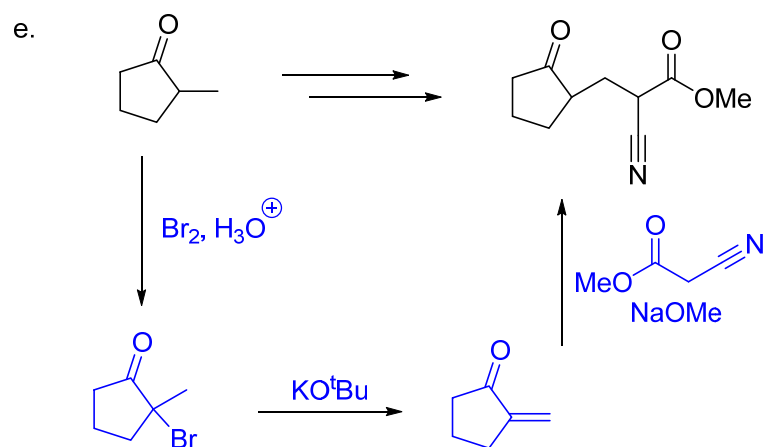
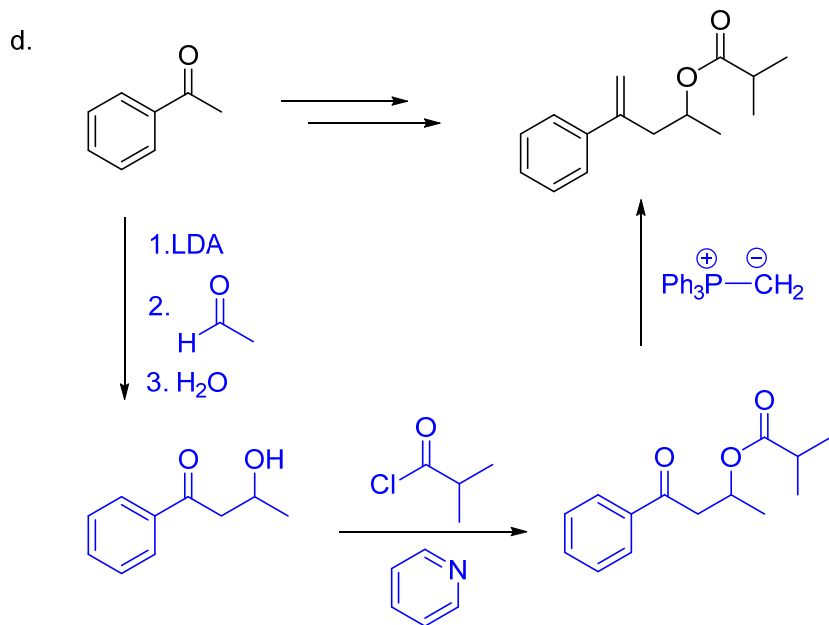


Chem 221 Worksheet  
Chapter 21 Synthesis

Propose a synthesis for the following transformations.

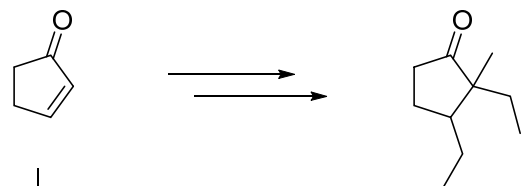


Chem 221 Worksheet  
Chapter 22 Synthesis

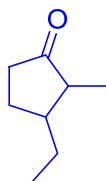


Chem 221 Worksheet  
Chapter 22 Synthesis

g.



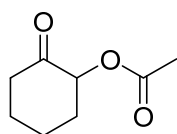
1.  $\text{Et}_2\text{CuLi}$   
2.  $\text{MeI}$



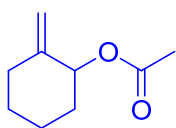
1.  $\text{LDA}$  (0.9 equiv.)  
 $25^\circ\text{C}$

2.  $\text{EtI}$

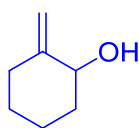
h.



$\text{Ph}_3\text{P}^+-\text{CH}_2^-$



$\text{NaOH}, \text{H}_2\text{O}$



$\text{PCC}$

