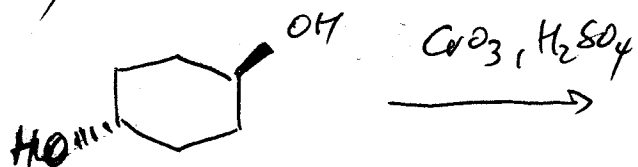
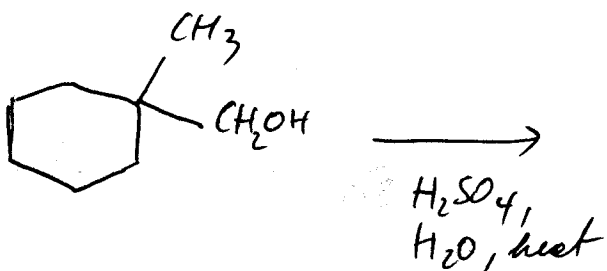


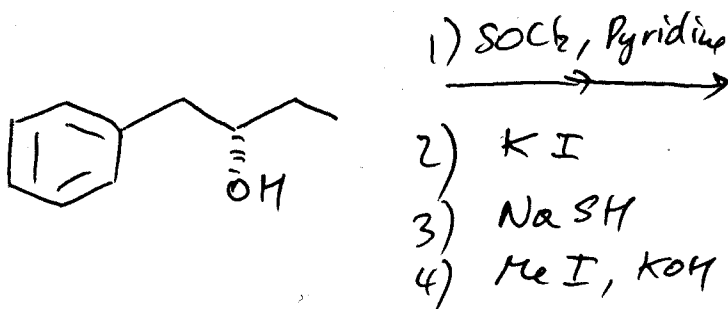
1. e)



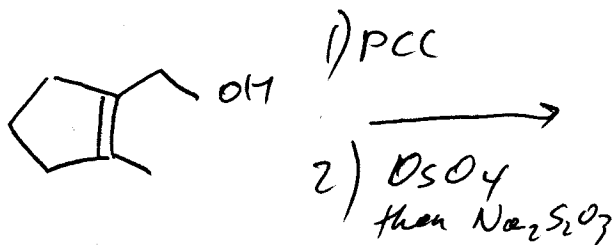
b)



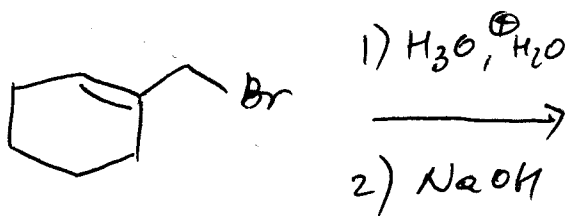
c)



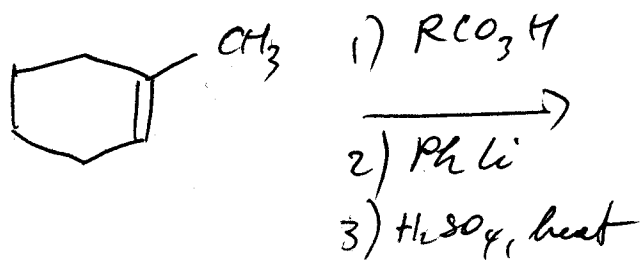
d)



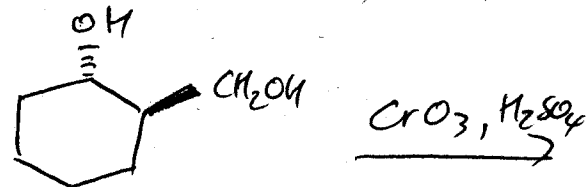
e)



f)

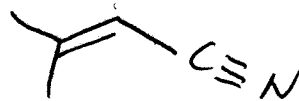
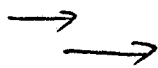
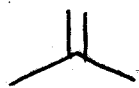


g)

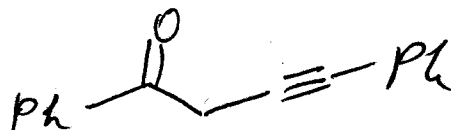
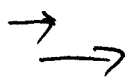


2. Synthesize the following compounds from the starting materials provided

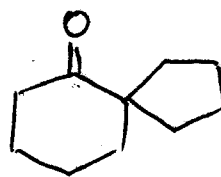
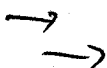
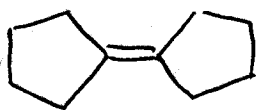
a)



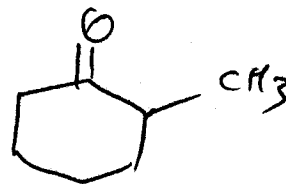
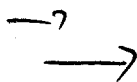
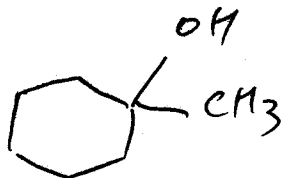
b)



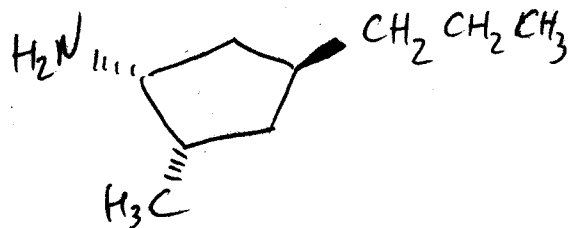
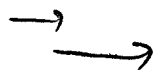
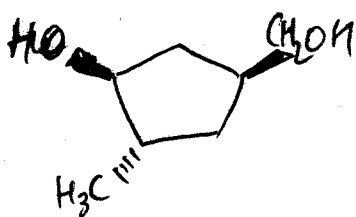
c)



d)



e)



please note that some of the steps involve reactions seen best quarters in 30A