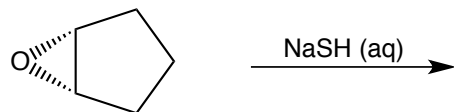
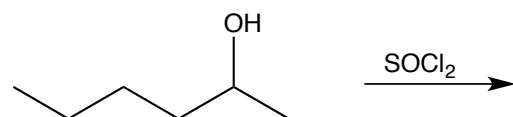


1. Provide the major product(s) of the following reactions.

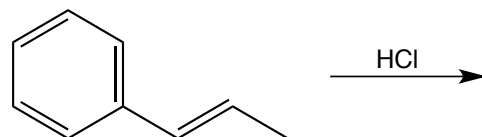
(a)



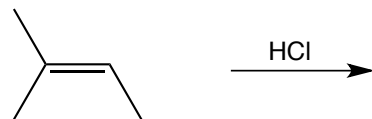
(b)



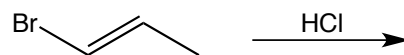
(c)



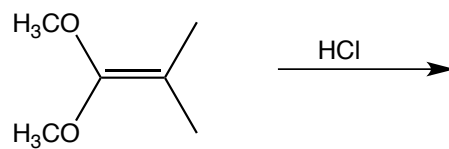
(d)



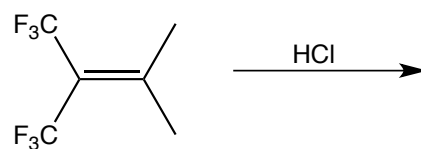
(d)



(e)

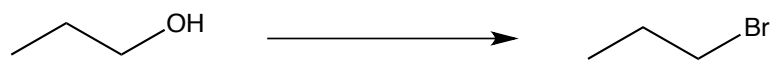


(f)



2. Provide the reagents needed to perform the following transformation.

(a)



(b)

