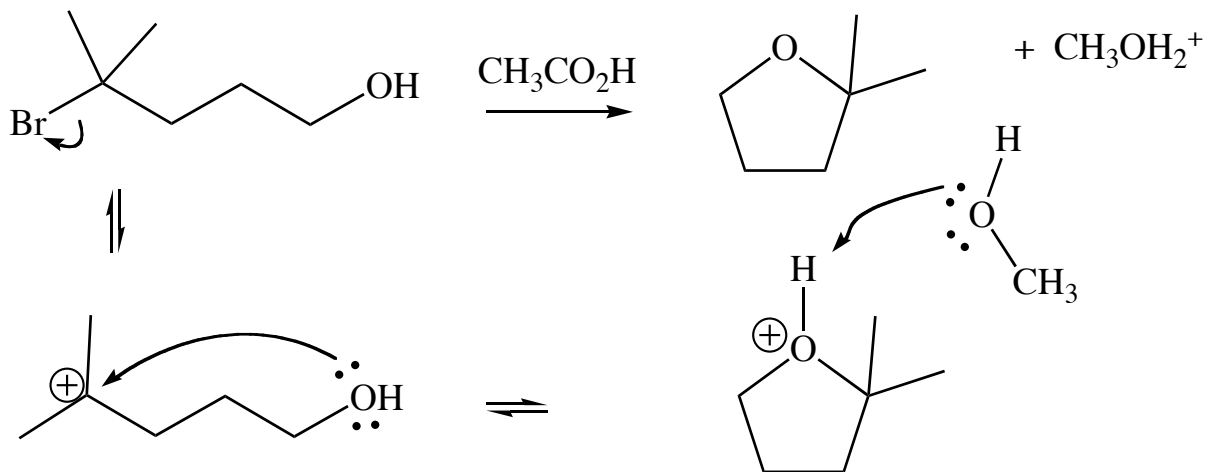
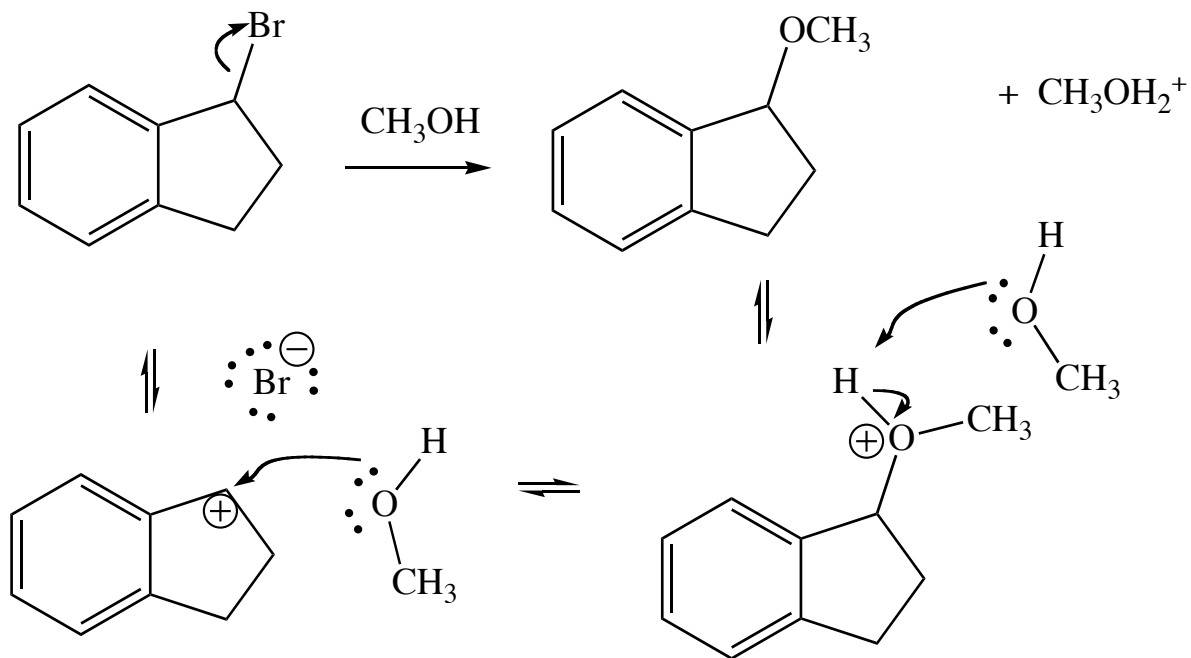
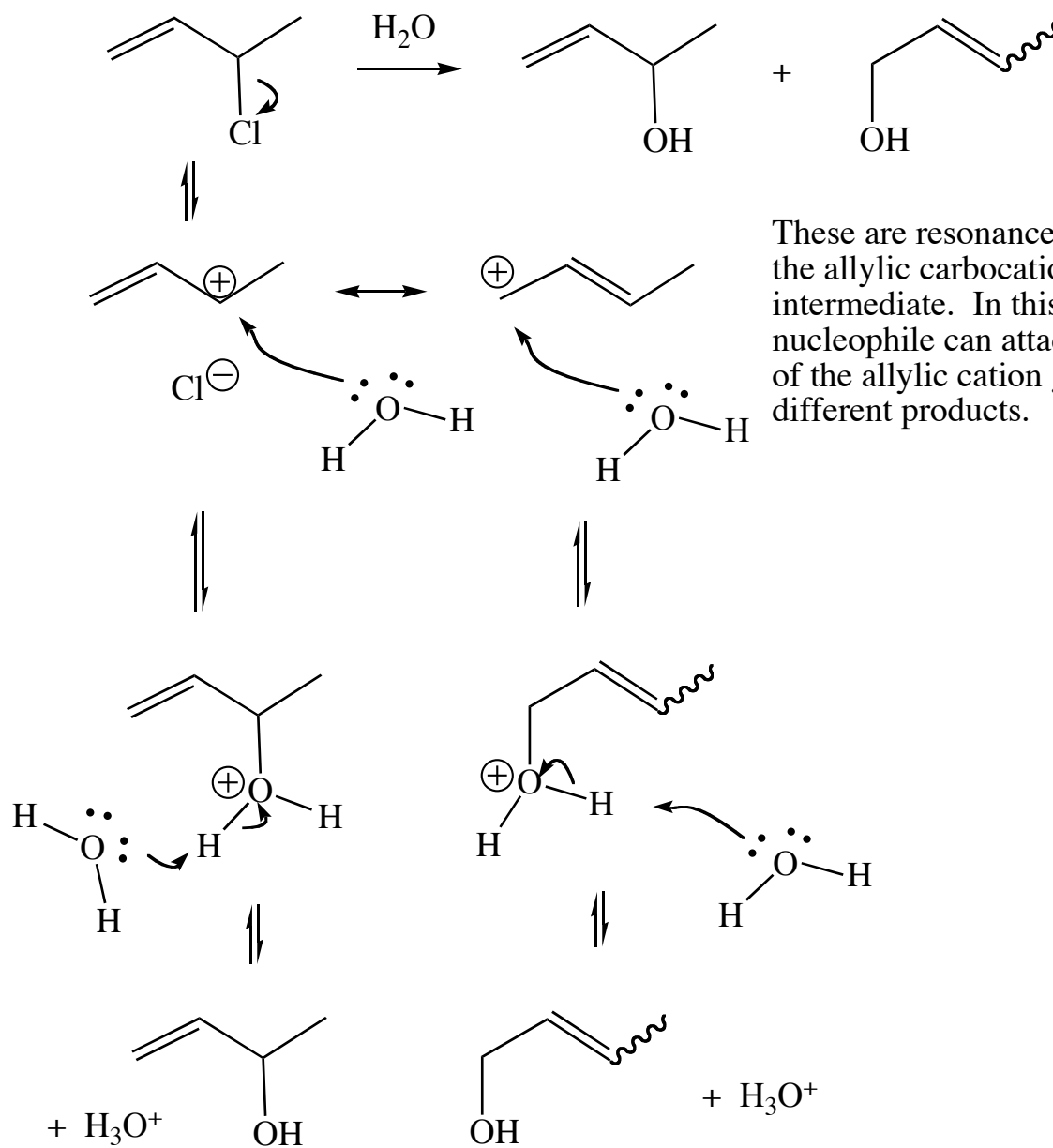


### Ex 43 - S<sub>N</sub>1 Mechanism

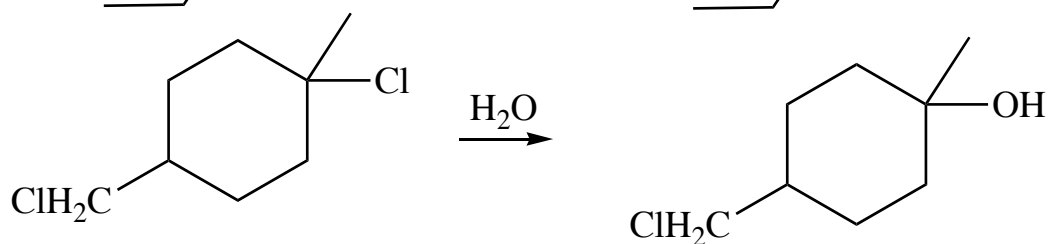
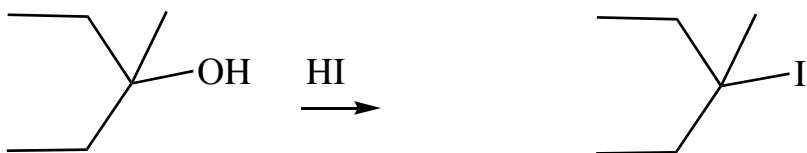
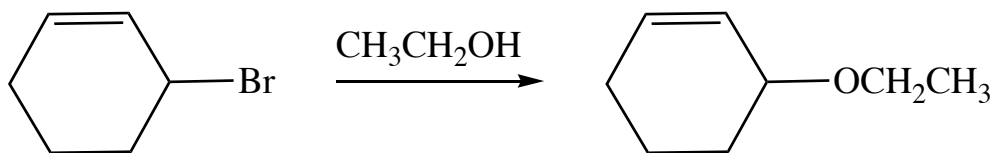
Provide mechanisms for the following S<sub>N</sub>1 reactions.





These are resonance structures of the allylic carbocation intermediate. In this case, the nucleophile can attack either end of the allylic cation giving two different products.

**Predict the product of the following SN1 reactions:**



**How would you prepare the following using an S<sub>N</sub>1 reaction.**

