

Last Name:

First Name:

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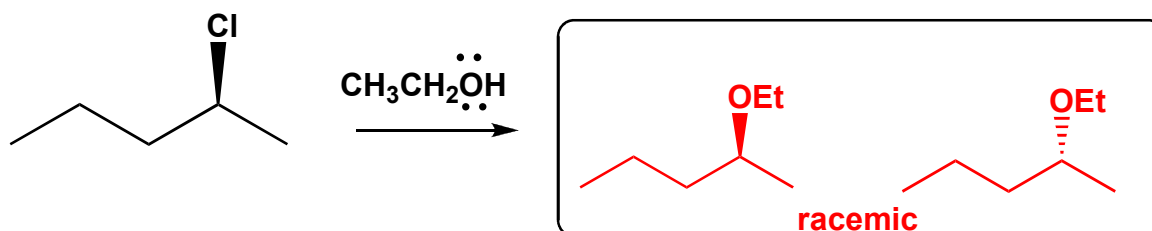
SCORE: **KEY**

Class Time:

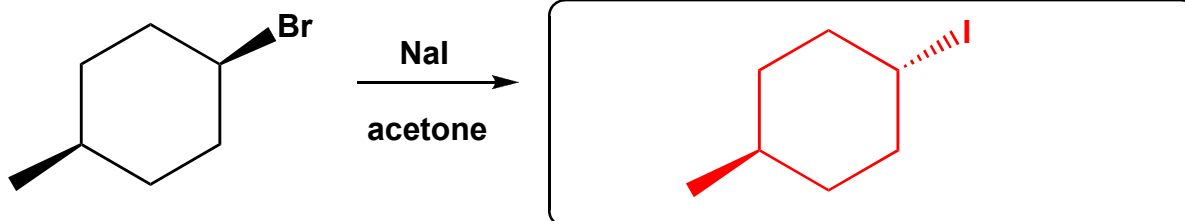
Deadline for CH320/328 M HW 9: Apr 15 3:00 PM

1) **Substitution Rxns:** For each of the reactions below, draw the structures of the product(s) which would result from the listed mechanism. If two products would be formed, then draw both in the box. Be sure to indicate and stereo- and regiochemistry.

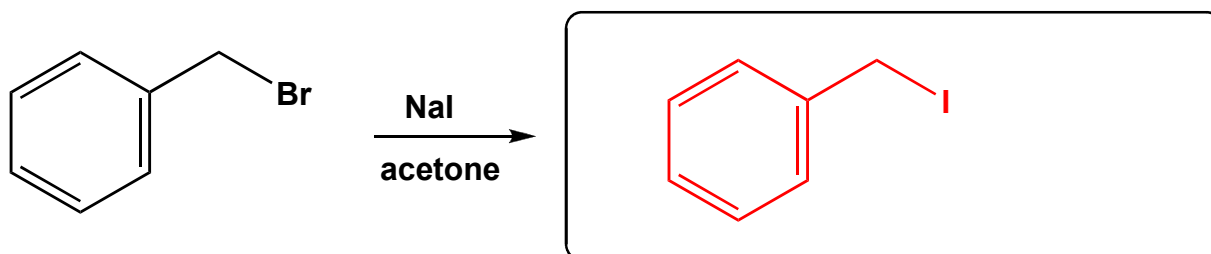
Sn1 mechanism



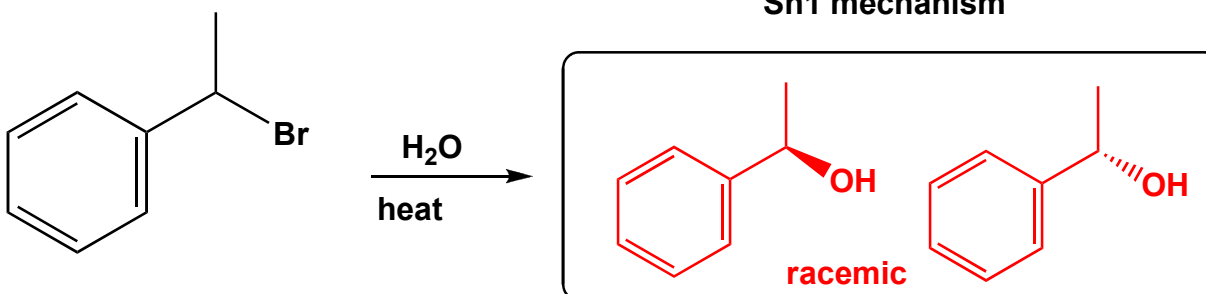
Sn2 mechanism



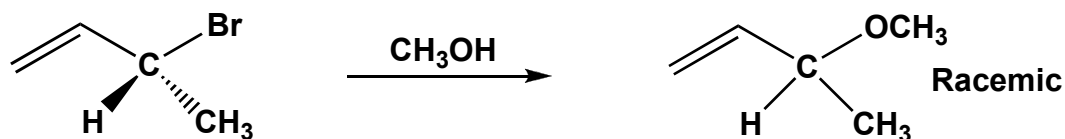
Sn2 mechanism



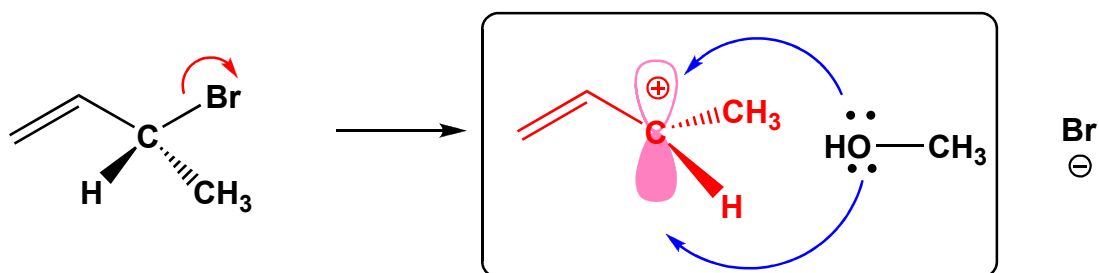
Sn1 mechanism



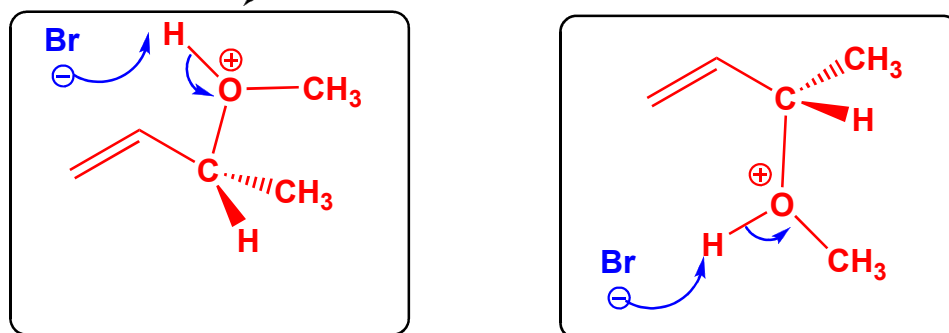
2) Mechanism: When R-3-bromo-1-butene is heated in methanol, a racemic mixture of ethers result. Show the mechanism for the reaction, show all important flows of electrons, charges and intermediates. (This was an exam question)



Show the ionization to produce the cation



Show the nucleophilic attack, (results in a racemic mixture)



Loss of a proton results in the final product(s)

