

Last Name:

First Name:

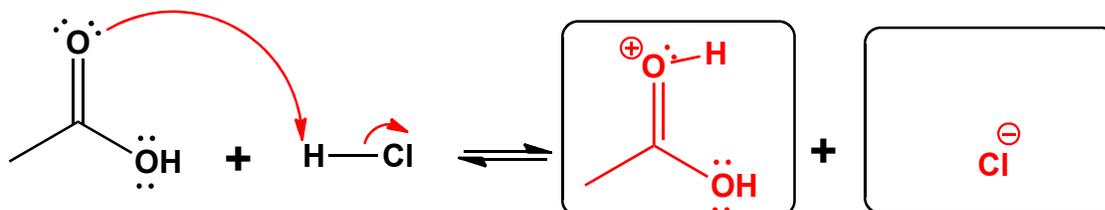
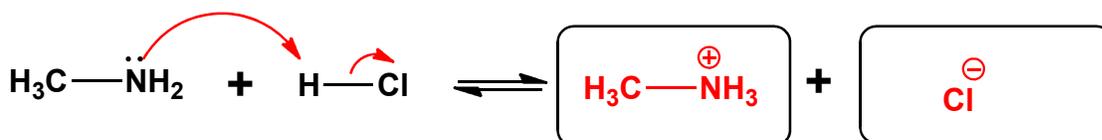
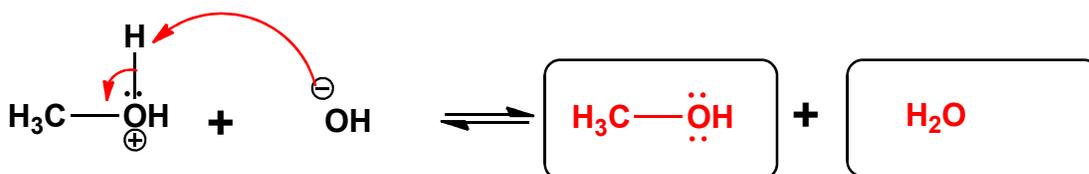
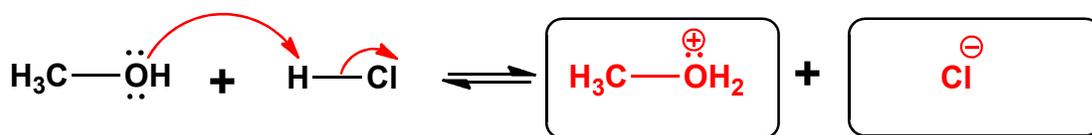
UTEID:

SCORE: **KEY**

Class Time:

Deadline for CH320/328 M HW 4: Oct 8 3:00 PM

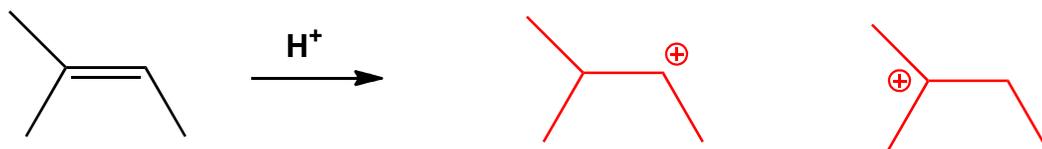
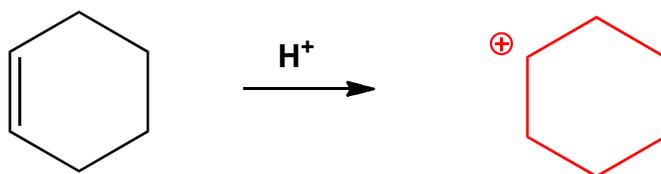
1) **Acid-Base reactions:** Provide the products for each of the following reactions. Write out the mechanism for each reaction; use curved arrows to show the flow of pairs of electrons; show all formal charges.



**2) Alkenes as "bases":** Draw the carbocation(s) from the protonation of each alkene. If there are two possible carbocations, indicate which one is more stable.



**Both are 2° & equal stability**



**3° Carbocation-  
more stable**



**3° Carbocation-  
more stable**