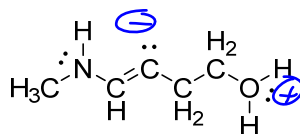
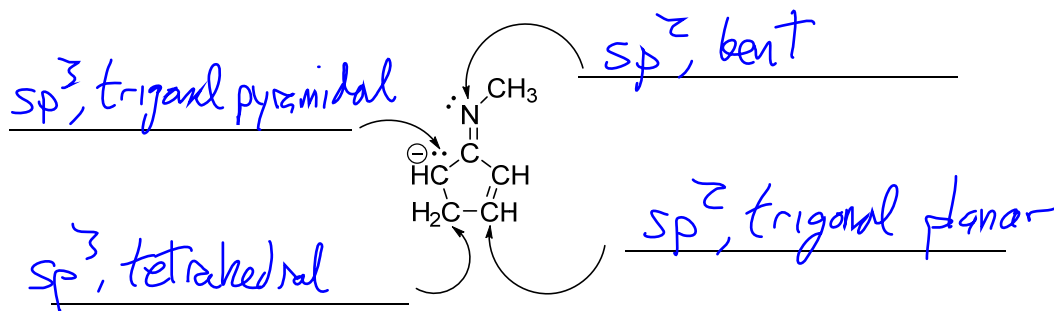


Name: _____

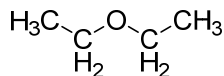
1. Assign formal charges where necessary for the following molecule. All lone pairs are already drawn. (2 points)



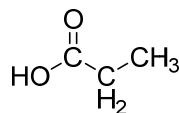
2. Provide the **hybridization** and **molecular** geometry for the indicated atoms. (4 points)



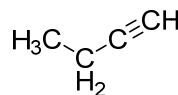
3. Identify the functional group in each molecule below. (2 points)



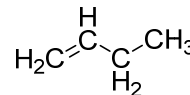
ether



carboxylic acid



alkyne



alkene

4. Draw a Lewis structure from the following bond line representation including all lone pairs. (2 points)

