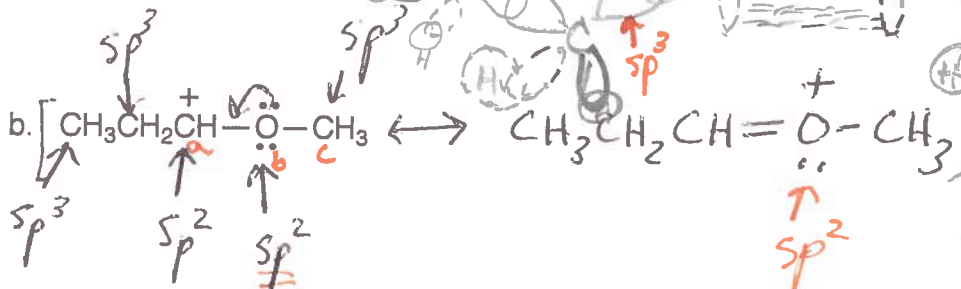
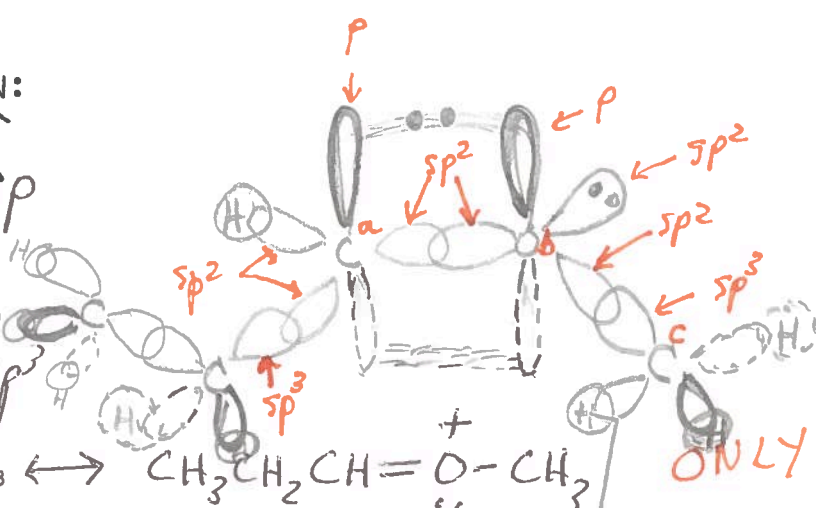
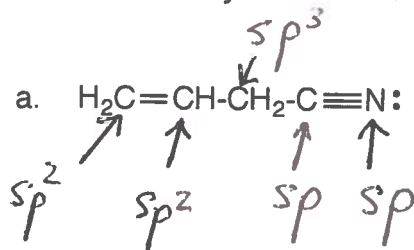


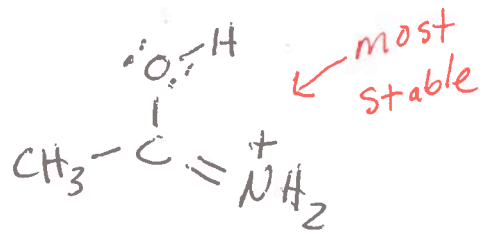
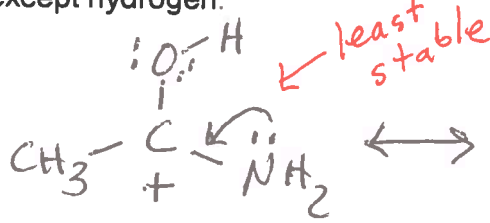
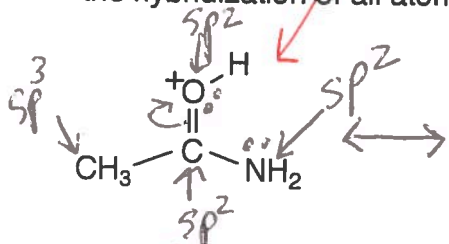
1. Indicate the hybridization of all atoms except hydrogen in the compounds below.



ONLY the hybrid exists!

Hybridization doesn't change!

2. Draw the resonance contributor(s) for the structure below. Label the major and minor contributor. Indicate the hybridization of all atoms except hydrogen.



Minor  
C does not have octet

MAJOR  
all atoms have octets AND  $\oplus$  on less electronegative nitrogen

all atoms have octets but  $\oplus$  on more EN oxygen  $\rightarrow$  less stable than  $\oplus$  on nitrogen

intermediate stability