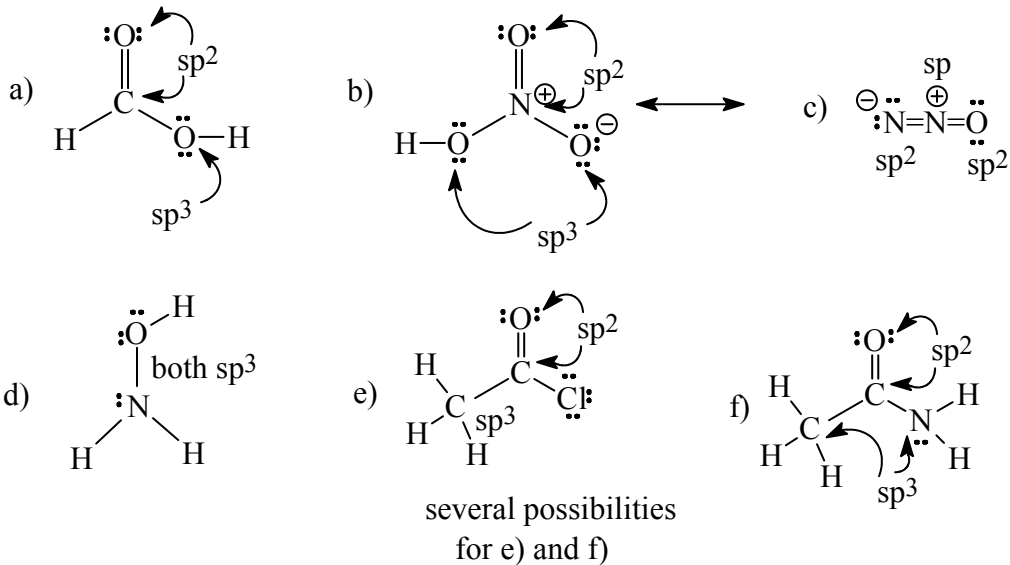
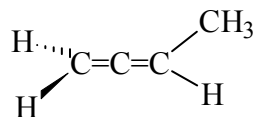


CHM 201
Some Chapter 1 and 2 problems

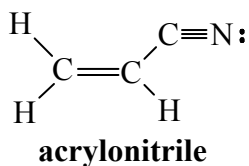
1. Propose reasonable Lewis-dot structures for the following. There may be more than one correct answer.



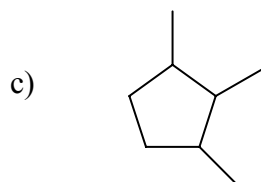
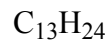
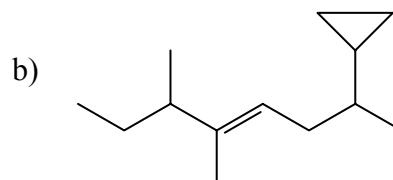
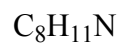
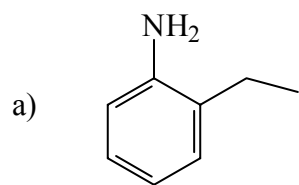
2. Identify the hybridization of each atom other than H and Cl in the compounds above. **See above.**
3. Propose a structure of a hydrocarbon with 4 carbons that has 2 $sp^2 - sp$ σ bonds.



4. Draw an orbital depiction of acrylonitrile. Label all bonds (π or σ) and orbitals (e.g. sp^3).



5. Determine the molecular formula of the following compounds:



draw this compound in zig-zag form

