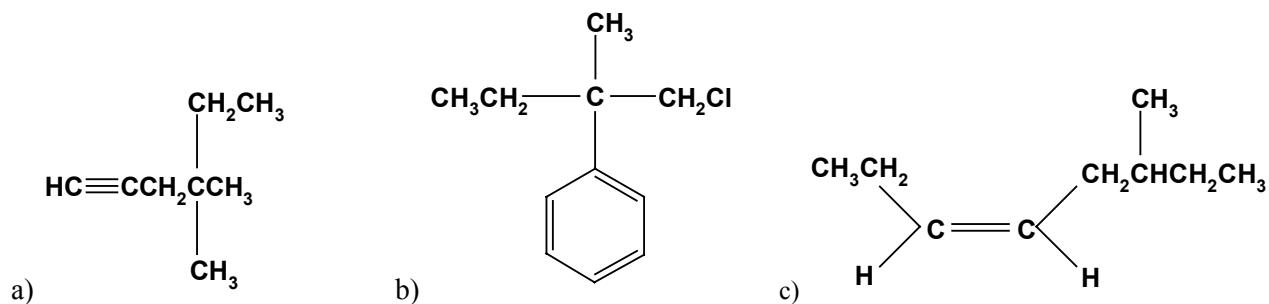
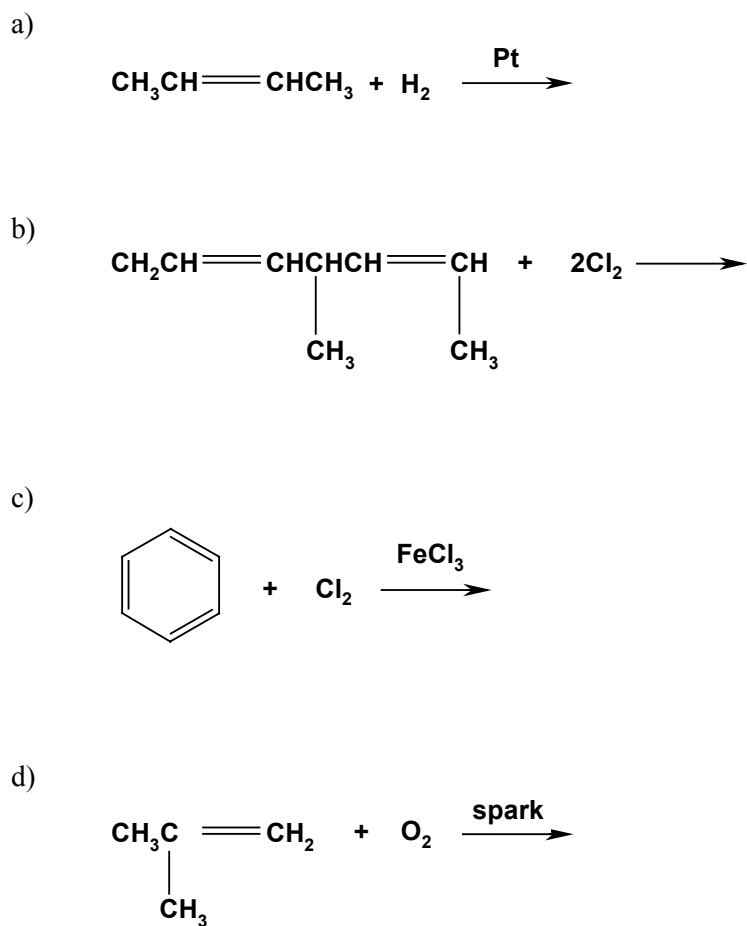


Your names \_\_\_\_\_

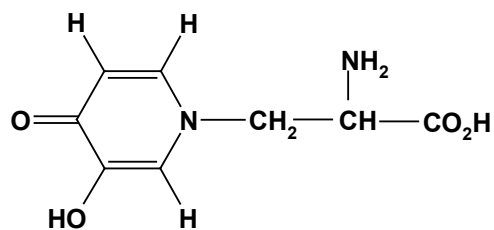
September 26, 2003

Workshop 2

**I. Nomenclature (3 pts).** Give the IUPAC names for each of the following compounds:**II Chemical Reactions of Organic Compounds (4 pts).** Complete the following reactions:

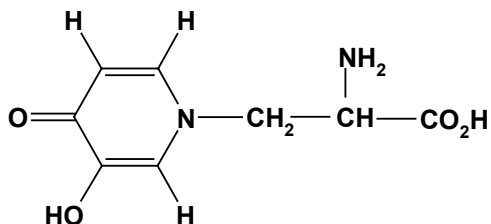
Your names \_\_\_\_\_

**III. Functional Groups. (3 pts)** Mimosine is a natural product found in large quantities in the seeds and foliage of some legume plants and has been shown to cause inhibition of hair growth and hair loss in mice.



mimosine,  $C_8H_{10}N_2O_4$

- What functional groups are present in mimosine?
- Give the hybridization of the eight carbon atoms in mimosine



- How many  $\sigma$  and  $\pi$  bonds are found in mimosine?