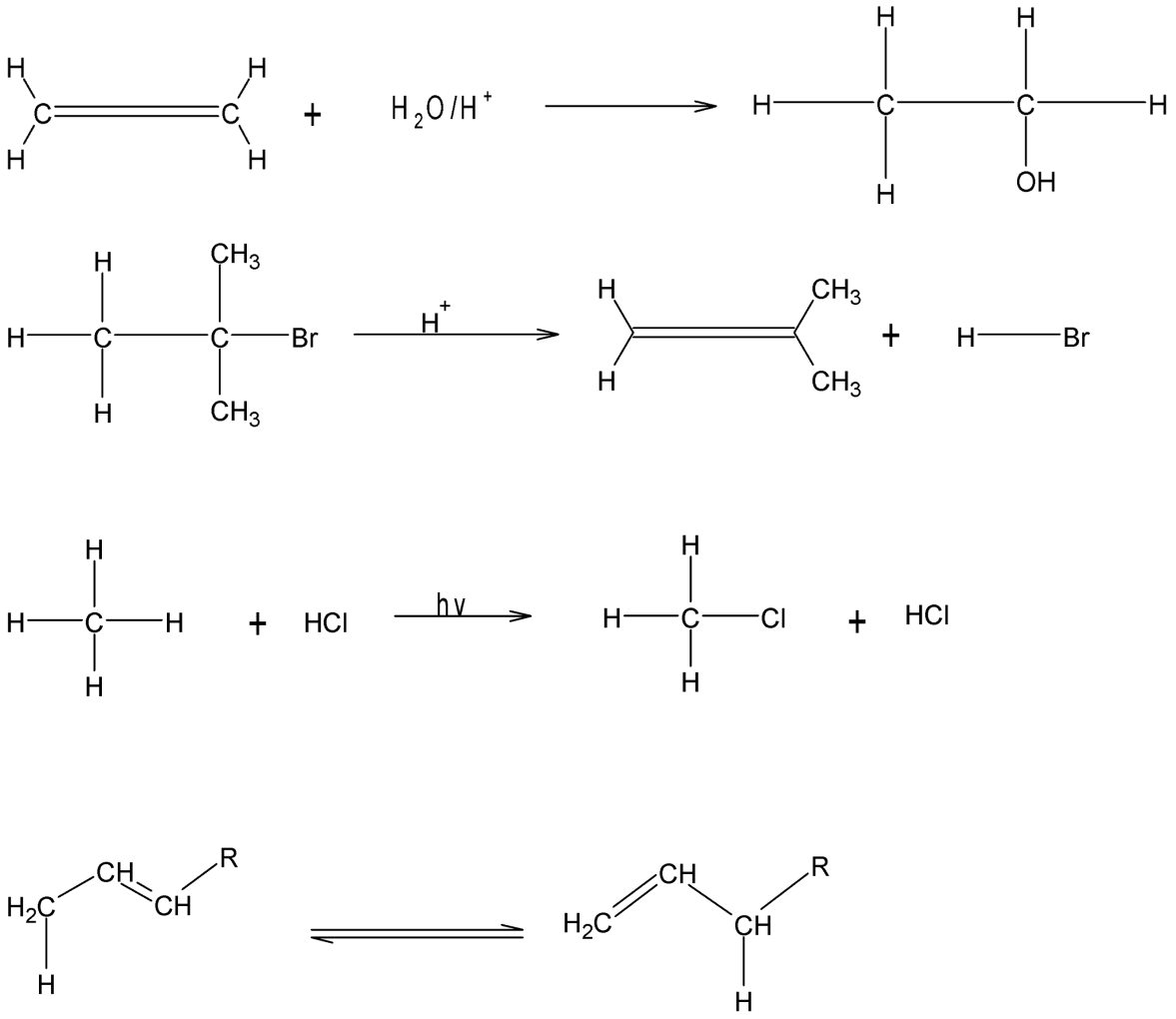
PCH 223 TUTORIAL QUESTION

1. Describe homolytic and heterolytic fission of bond
2. State the following principles
   a. Aufbau principles
   b. Hund's rule
   c. Pauli exclusion principles
3. Differentiate between polar and non-polar bond in organic chemistry
4. List 6 factors that affect reactivity of an organic chemistry
5. Discuss hybridization
6. Identify the following reaction below



7. Define the following with examples
   a. Nucleophile

b. Electrophile
c. Lewis acid and base
d. Bronsted-Lowry acid and base

8. Discuss the factors that affect acid strength
9. How does PH affect the structure of an organic compound?