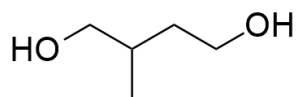
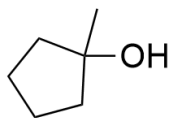
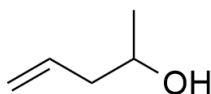
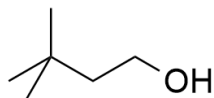


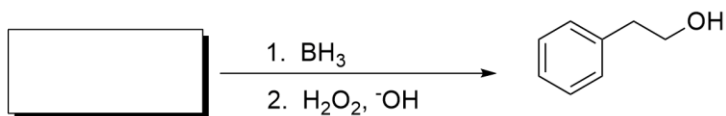
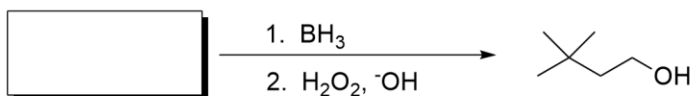
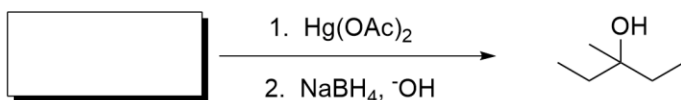
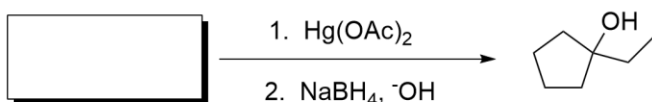
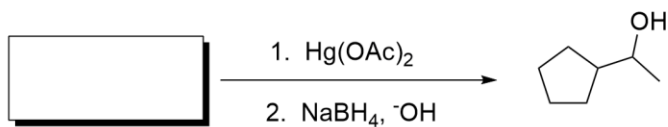
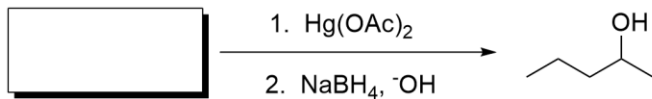
Write out the answers on separate sheets of paper.

1. Give the IUPAC name for the following molecules.

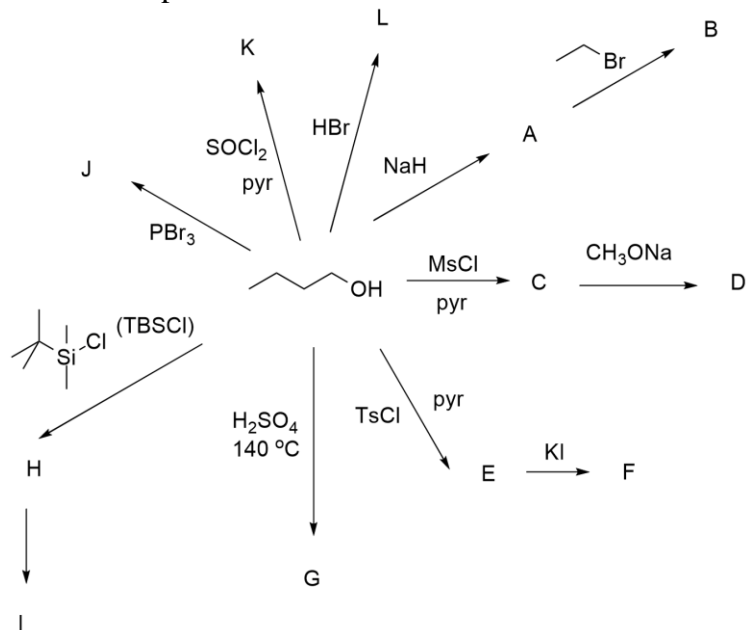


2. Write the structure for each IUPAC name.
- (R)-Butane-1,2,4-triol
  - 1-ethylcyclobutanol
  - 2-chlorohex-3-yn-1-ol
  - (1R,2R)-cyclopentane-1,2-diol
  - Ethyl phenyl ether
  - Diisopropyl ether

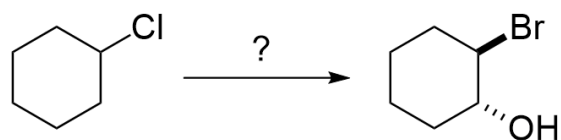
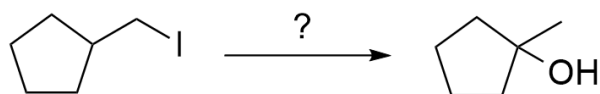
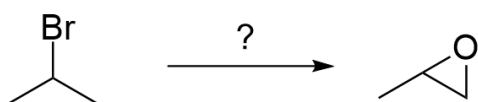
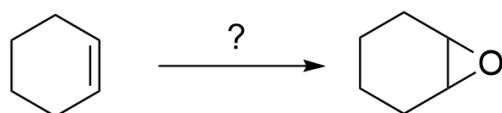
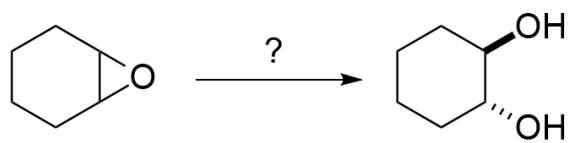
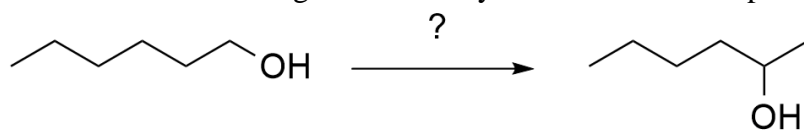
3. Draw the structure of the alkene.



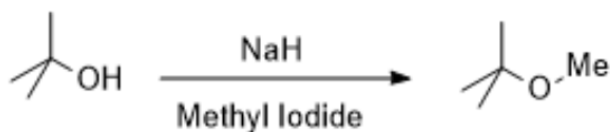
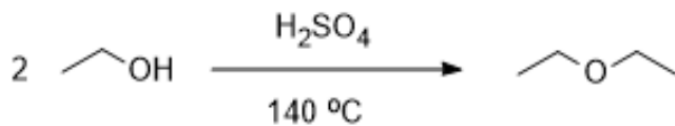
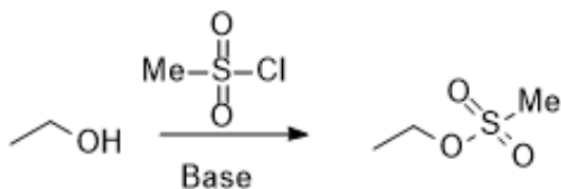
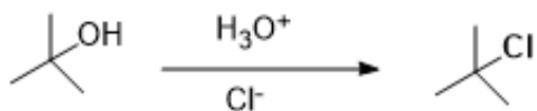
4. Provide the products A-L.



5. Provide the reagents necessary. More than one step may be required.



6. Write the mechanism for the following reactions.



7. Write the mechanism for the following reactions.

