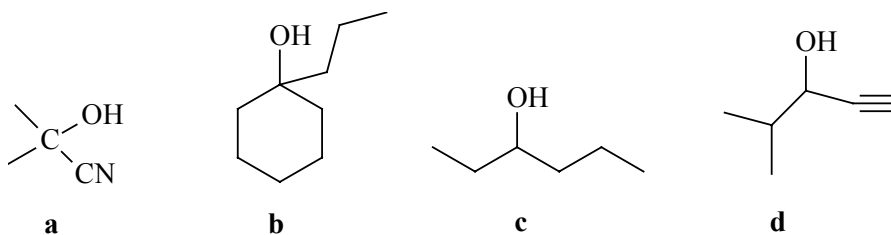


**SF-tutorial: Introduction to Organic Chemistry**  
**(Dr. Thorfinnur Gunnlaugsson)**

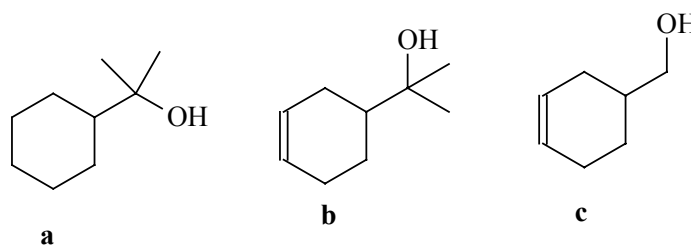
1) Define the following:

- a) carbanion
- b) disconnection
- c) synthetic equivalent
- d) functional group
- e) functional group interconversion
- f) synthons
- g) reagent

2) Show the synthons, the FGI and the synthetic equivalents for the synthesis of the following compounds:



3) Suggest the disconnection for the following compounds:



4) What is the product of the following reactions? Show the mechanism in each step.

