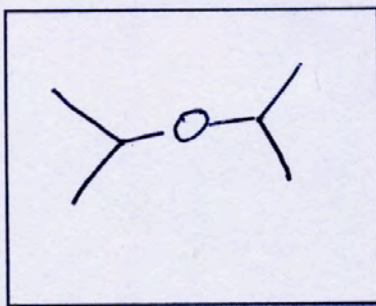
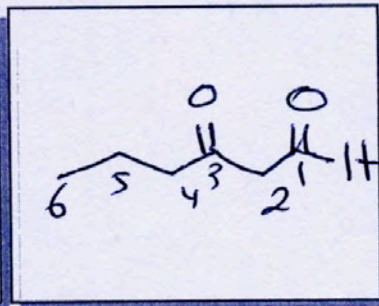


1. (6 Points) Give the correct structure for each of the following compounds.

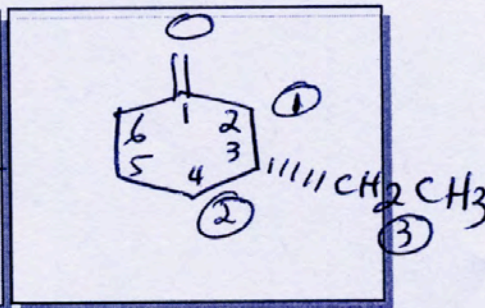
a) Diisopropyl ether



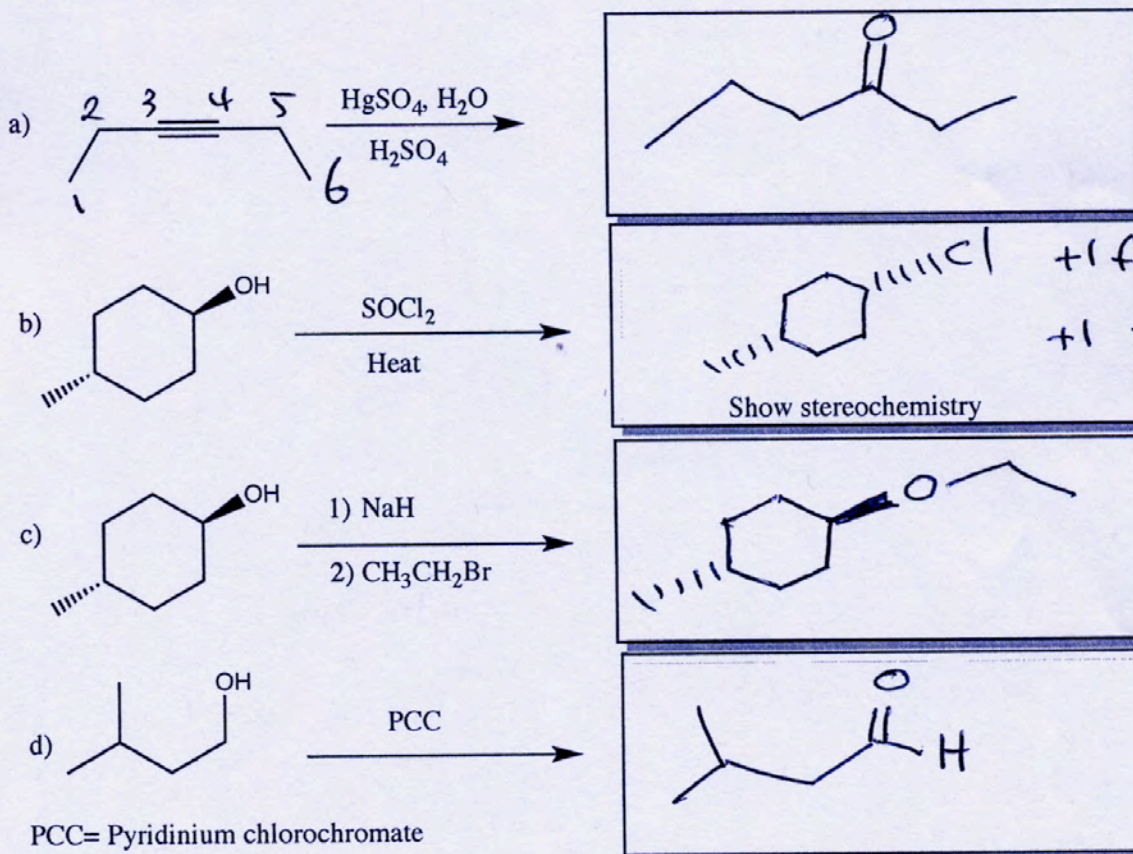
b) 3-Oxohexanal



c) (R)-3-Ethylcyclohexanone

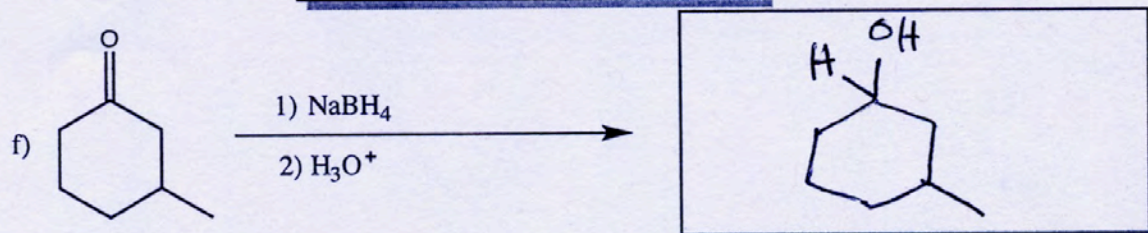
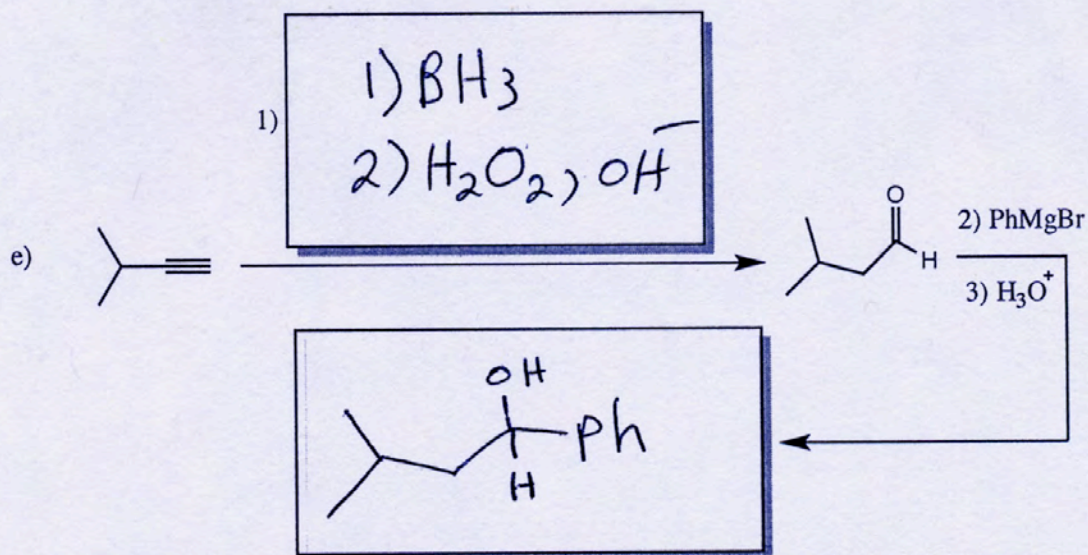


2. (14 Points, 2 Pts. Each) Complete the following chemical transformations by filling the boxes appropriately with reactant, reagents, or products.



2 Products





3. (5 Points) Provide a stepwise mechanism for the following Aldol condensation reaction.

