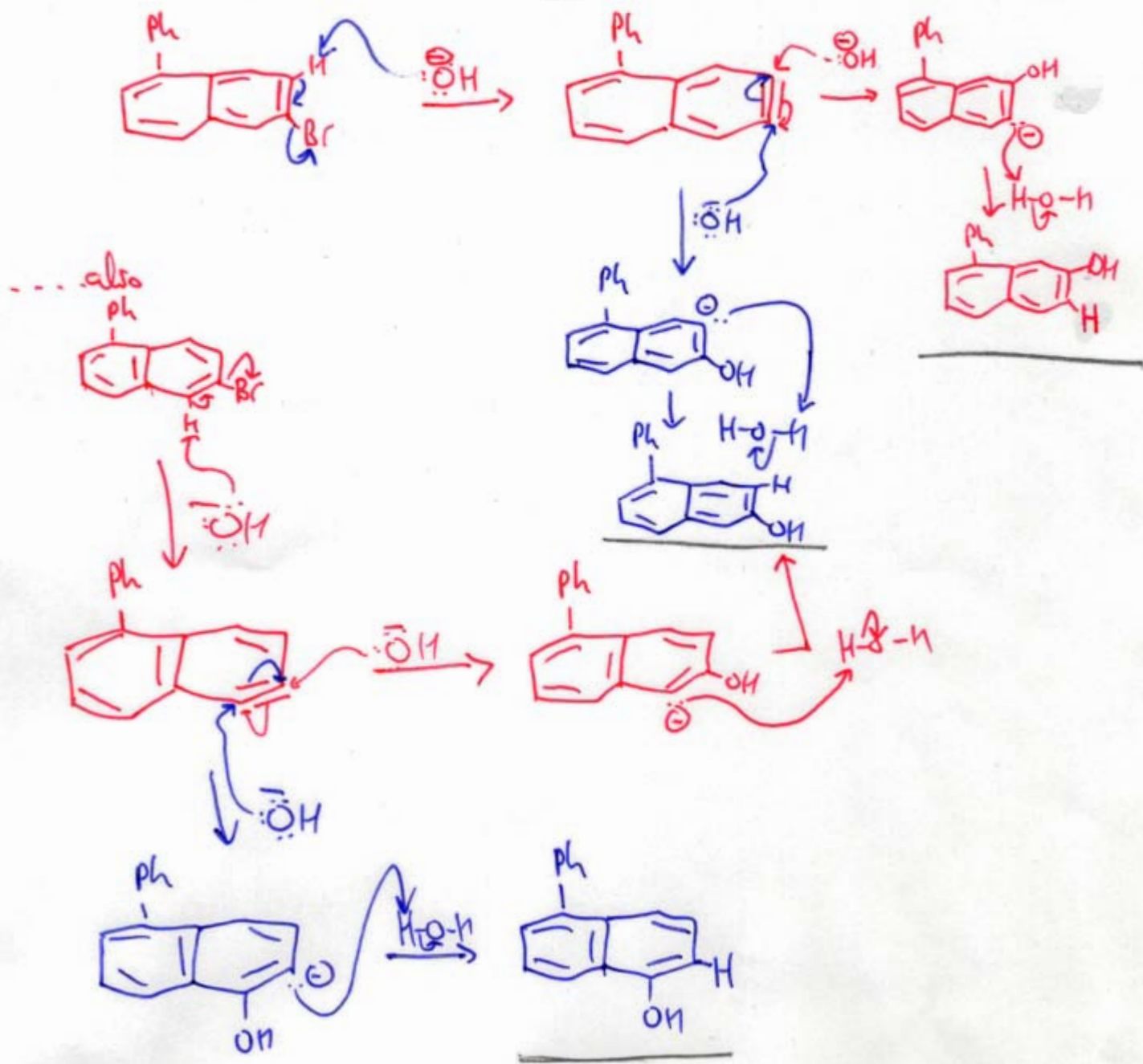
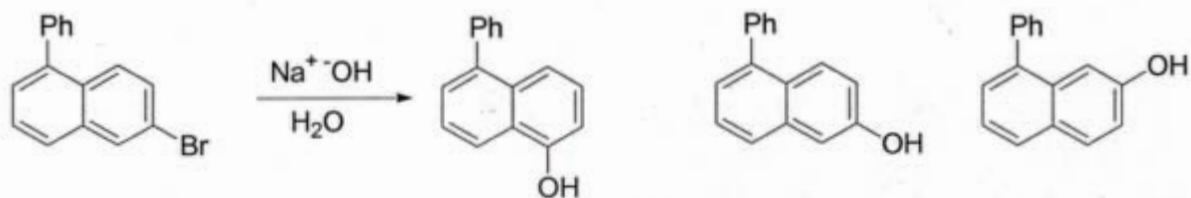
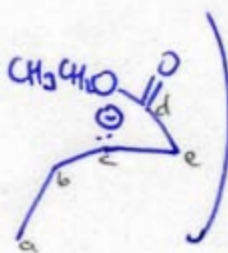
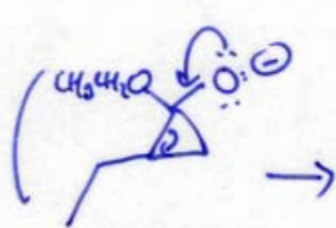
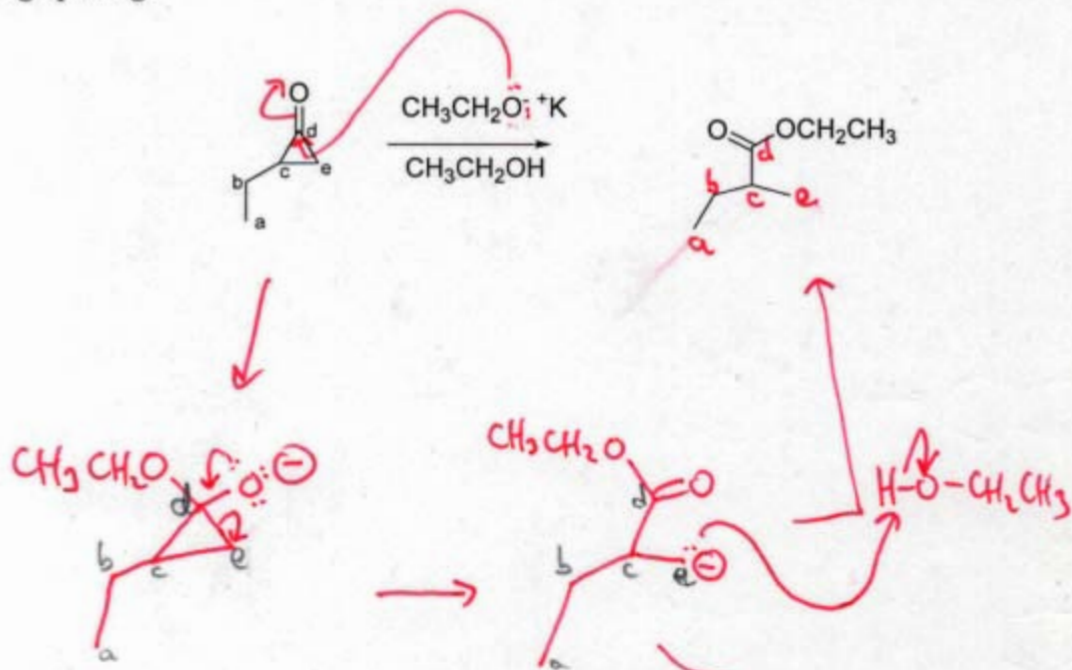


1) Write a mechanism consistent with the mixture of products produced in this reaction.
(7pts)



2) Label the atoms in the product, and then write the mechanism which involves a Favorskii type process. (7pts) *There is a bonus point if you justify the regiochemistry of ring opening.*



does not occur as
 it leads to a less stable
 anion. (secondary anion
 whereas red anion = primary)

3) Write the mechanism for the following reaction. (6pts)

