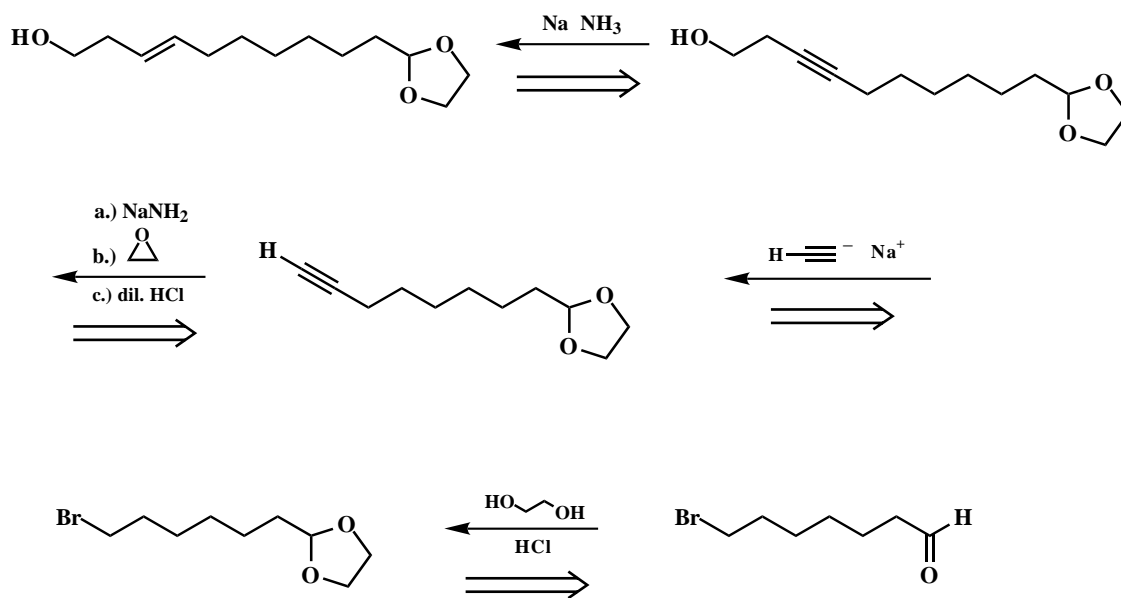


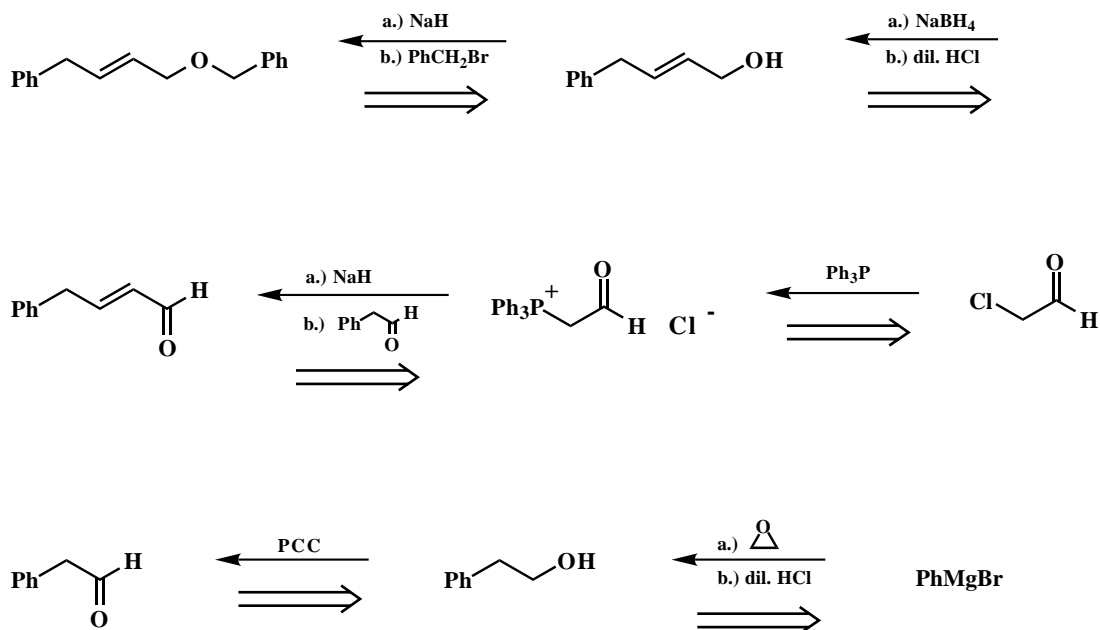
## Synthesis Set #2

As mentioned in lecture, there usually are a number of viable solutions to a synthesis problem. Concise syntheses that avoid product mixtures are preferred. Regio- and stereochemistry must be controlled where appropriate.

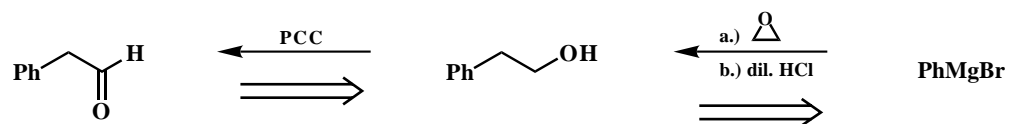
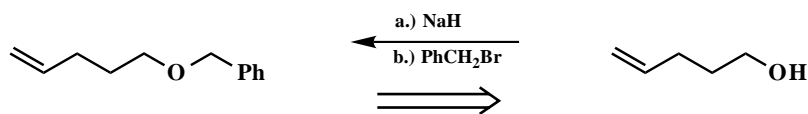
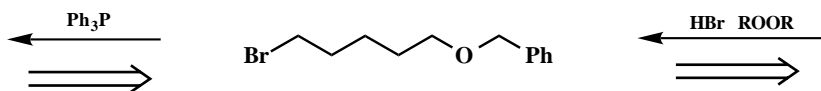
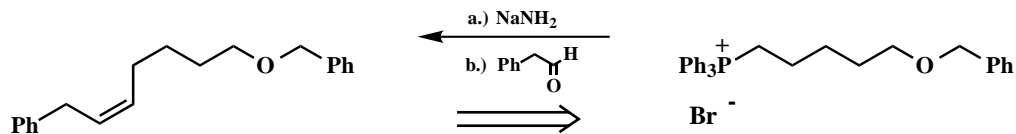
1.



2.



3.



( as above for problem 2)

4.

