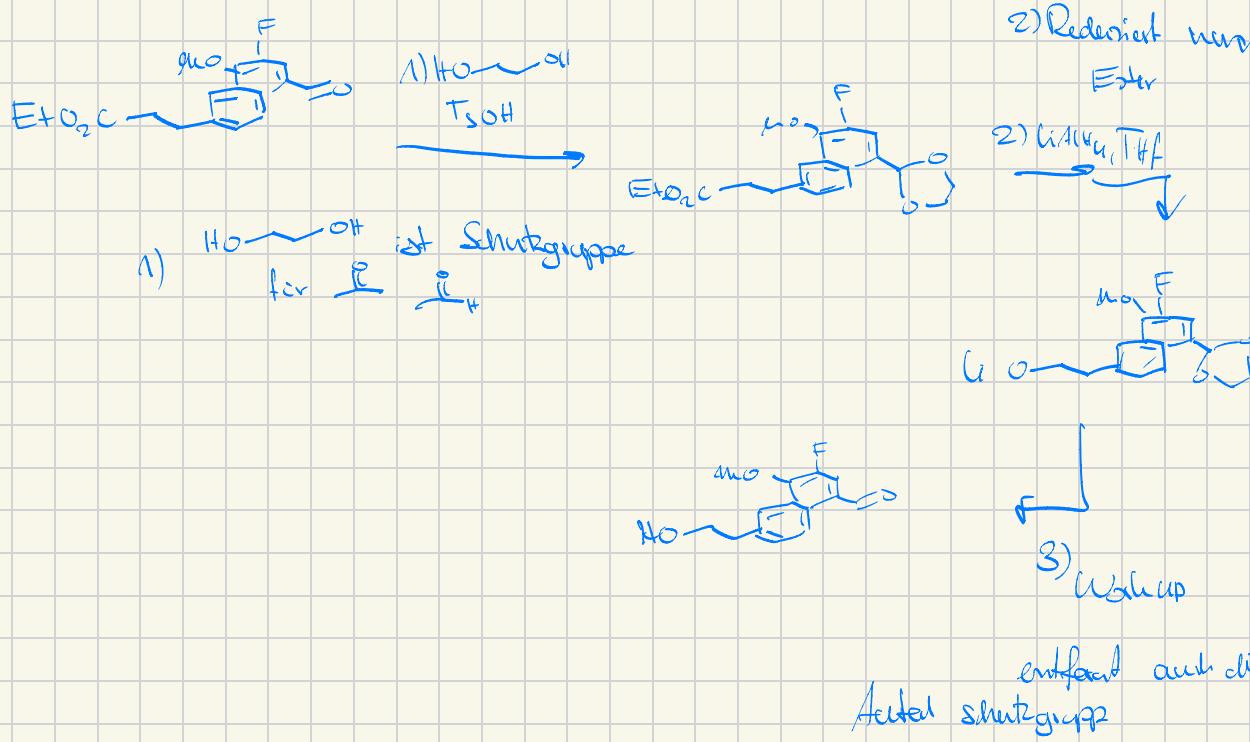


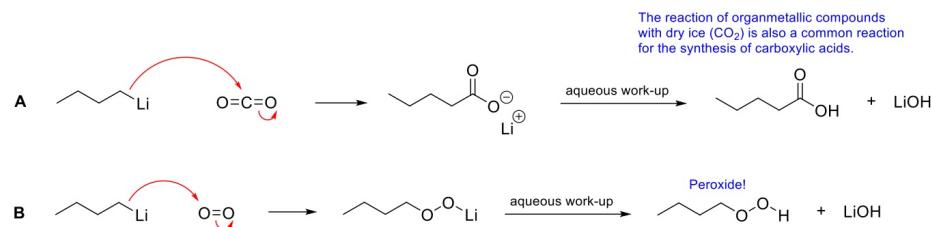
# OC Notes

22.10.24

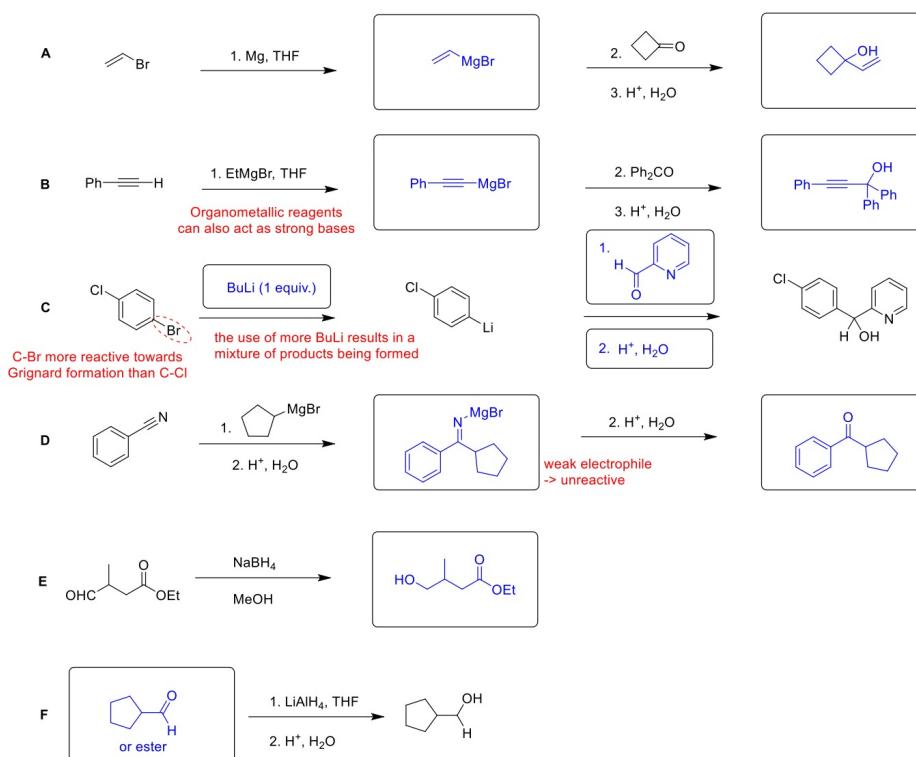
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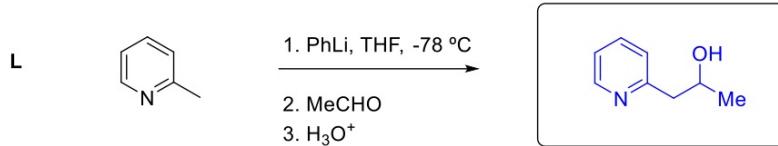
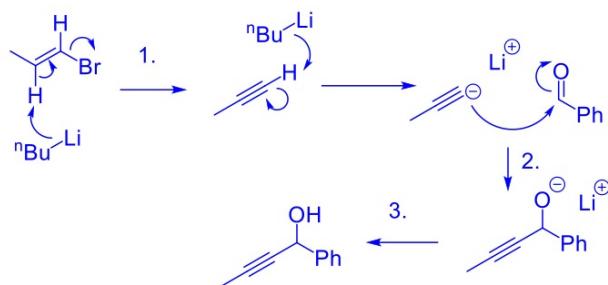
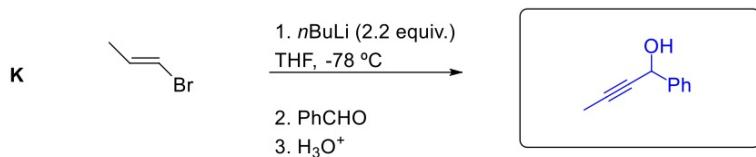
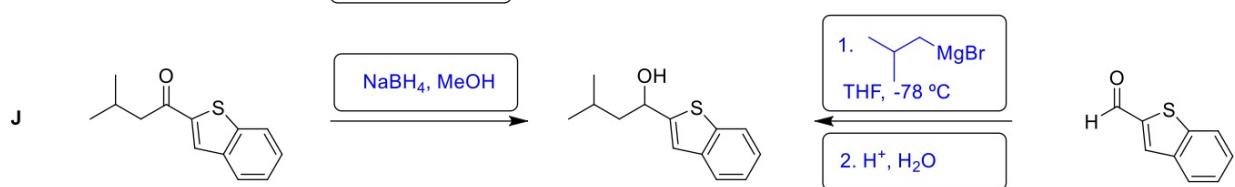
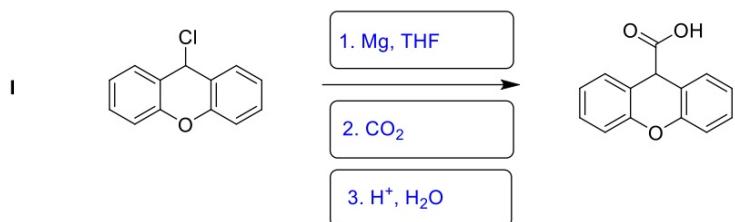
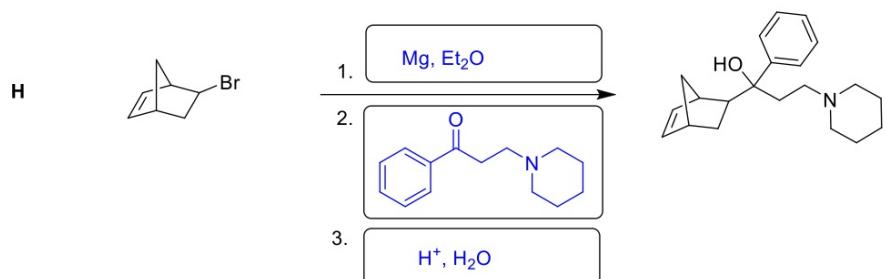
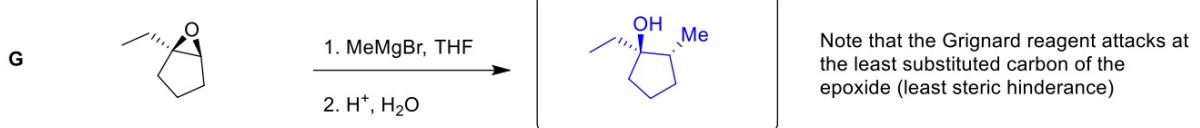


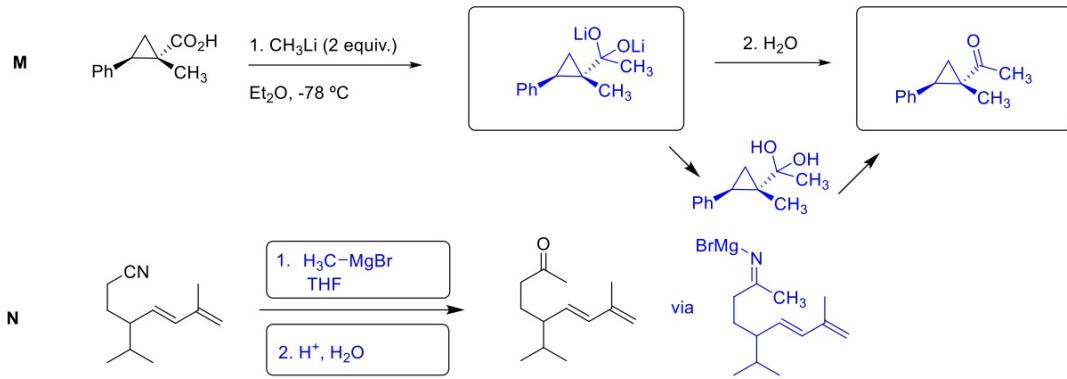
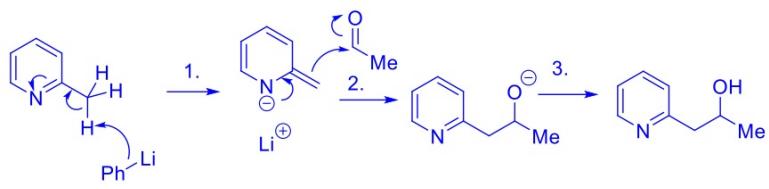
4. The presence of  $\text{CO}_2$  and  $\text{O}_2$  can reduce the yield of reactions with organolithium compounds. Explain why this is the case by drawing the mechanisms for the two reactions shown below.



5. Provide the missing starting materials, intermediates and products. Mechanisms are not required.







1)

Organolithium more stable on  $sp > sp^2 > sp^3$

2)

- Al more electropositive
- Li better Lewis acid
- size difference

3) Sketch