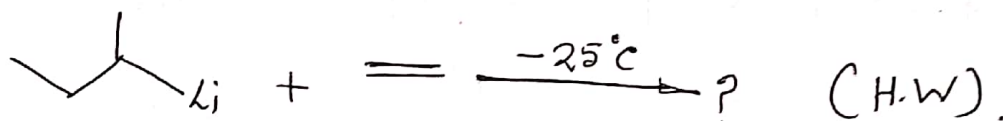
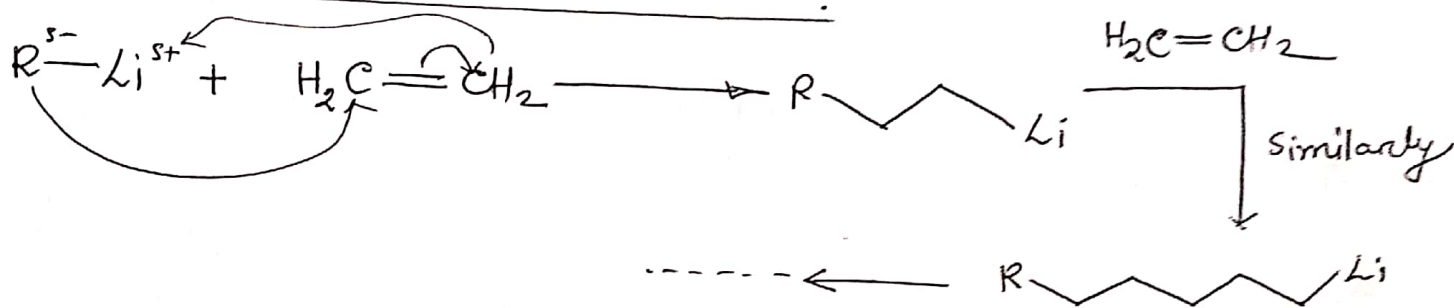


Rexn of Organolithium Compounds

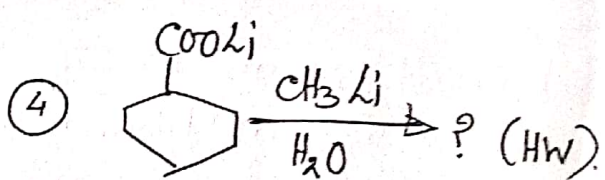
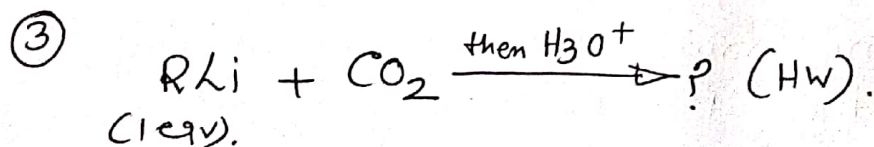
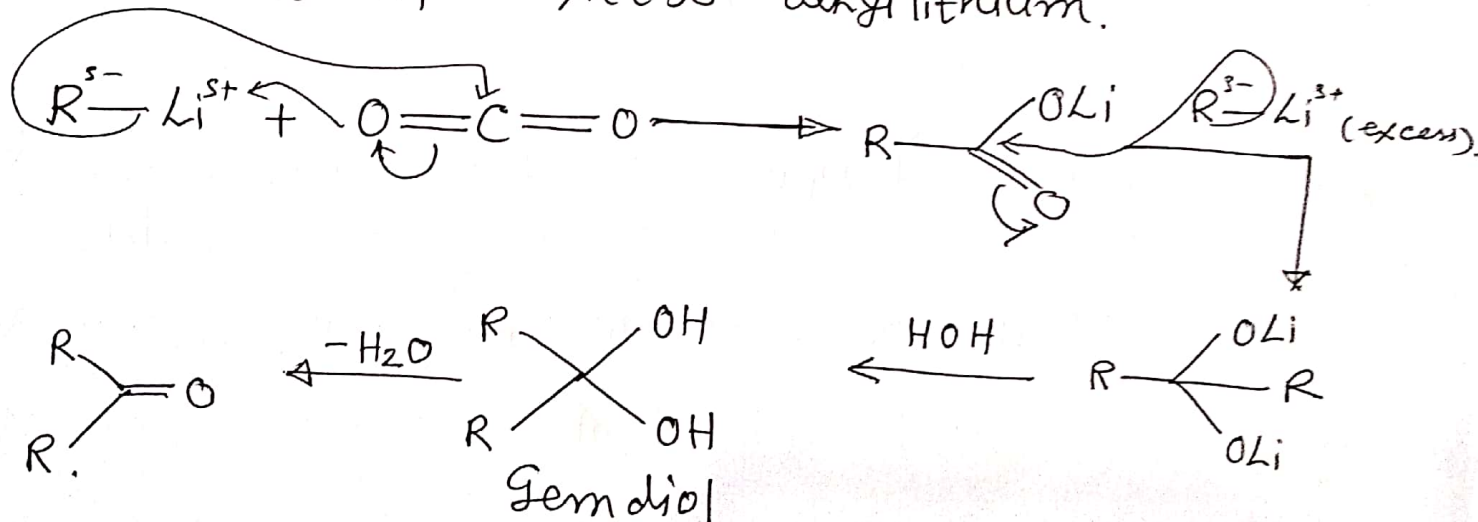
Most of the reactions of Organolithium run parallel with GR.

Those reactions are given here which are slightly different from Grignard Reagent.

① Insertion into C=C bond!

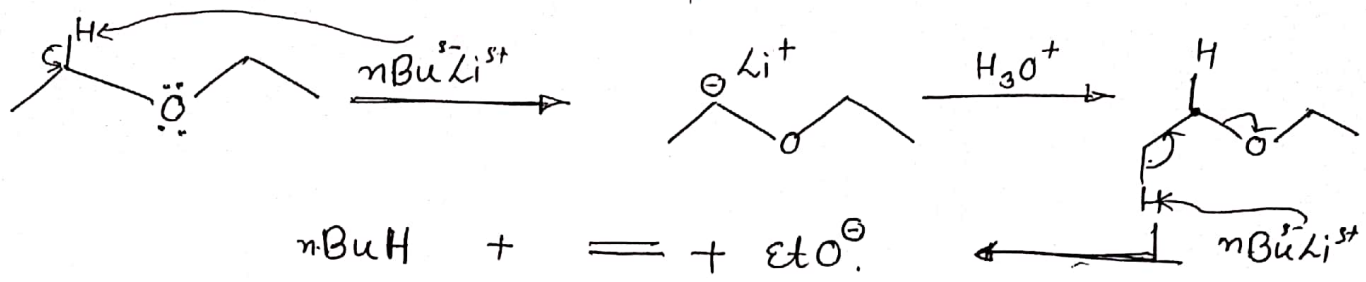


② Preparation of Ketone on rxn with CO₂ in presence of excess alkyl lithium.

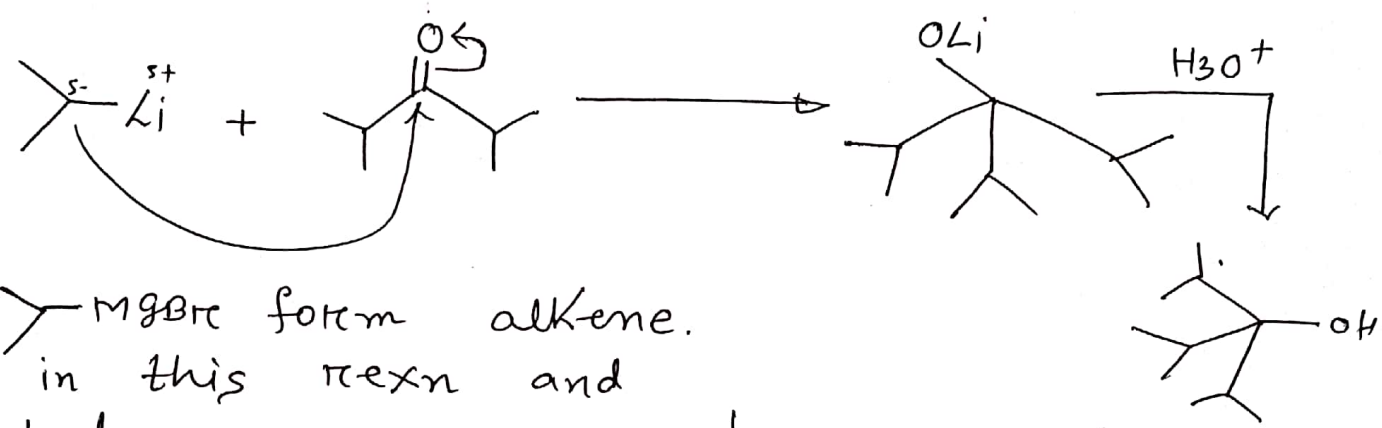


⑤. Unlike GR, RLi attacks ether via metallation rxn.

②



⑥

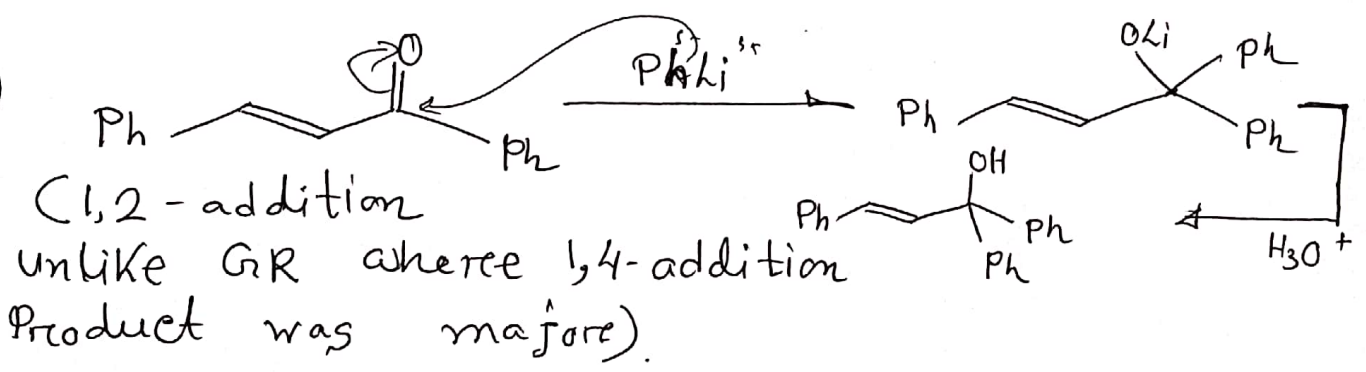


MgBr form alkene in this rxn and products were C=C + CC(C)C(O)C(C)C
(Abnormal rxn)

Tris-isopropyl carbinol

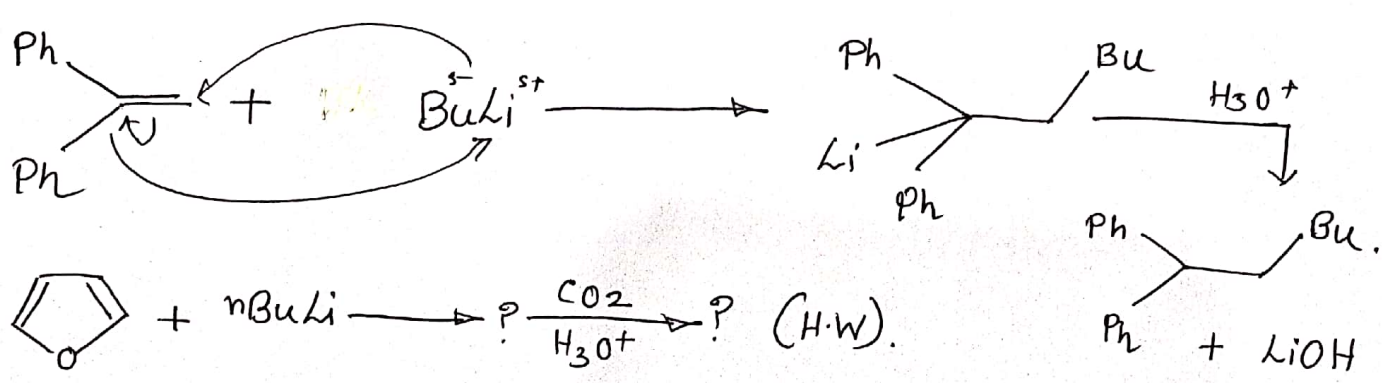
But here 1,2-addition occurs because of high reactivity of organolithium compound.

⑦



(1,2-addition unlike GR where 1,4-addition product was major)

⑧



⑨

