

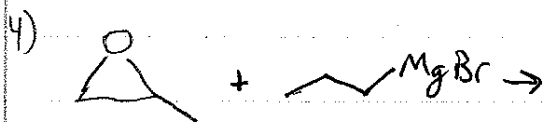
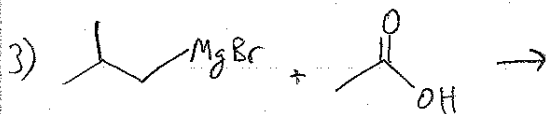
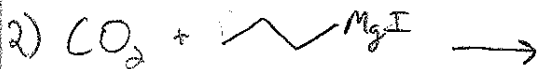
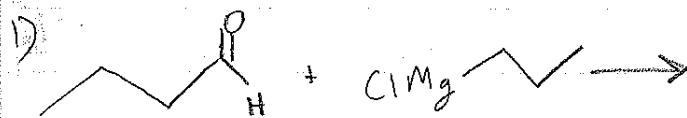
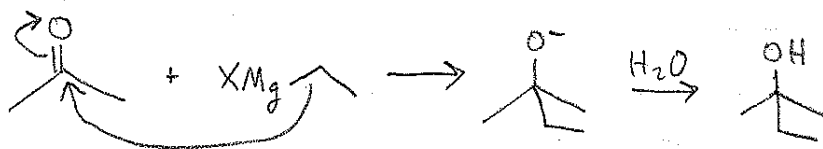
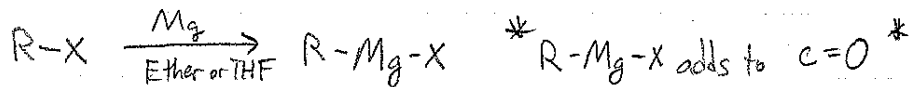
Grignard Reaction

- Allows addition of carbons

- Must be done in absence of proton source

- Reactivity: $1^\circ > 2^\circ > 3^\circ > \text{alkenyl} > \text{aryl}$
(for Grignard formation)

source

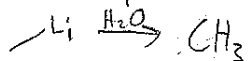


Gilman Reagents

- Similar to Grignard



- Must be done in absence of proton source



- RLi reacts with CuI to give Gilman reagents

↓

Gilman reagents react w/ alkyl halides to give alkanes

