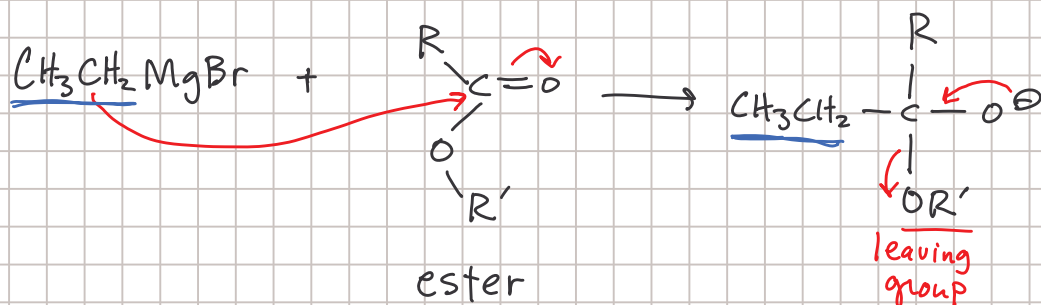


Ch 10

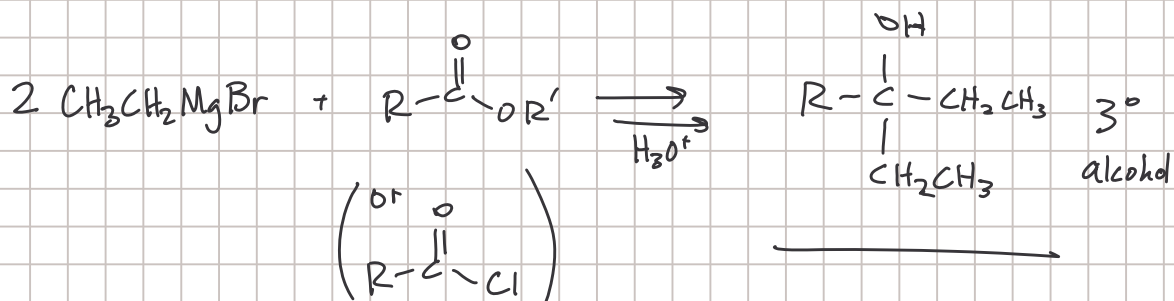
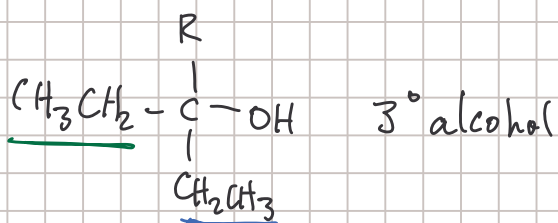
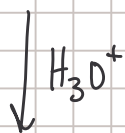
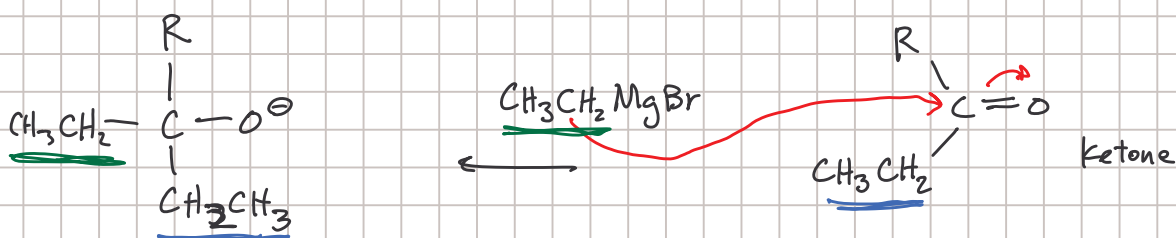
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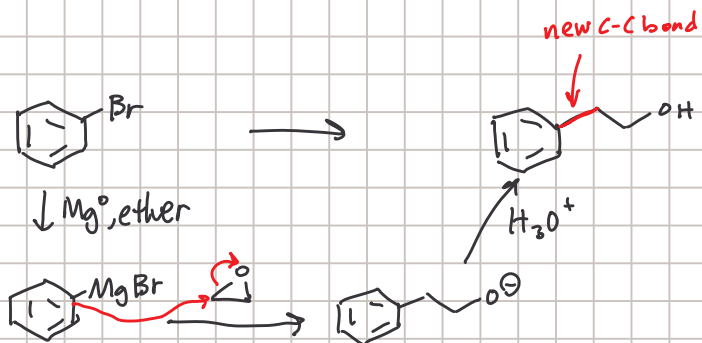
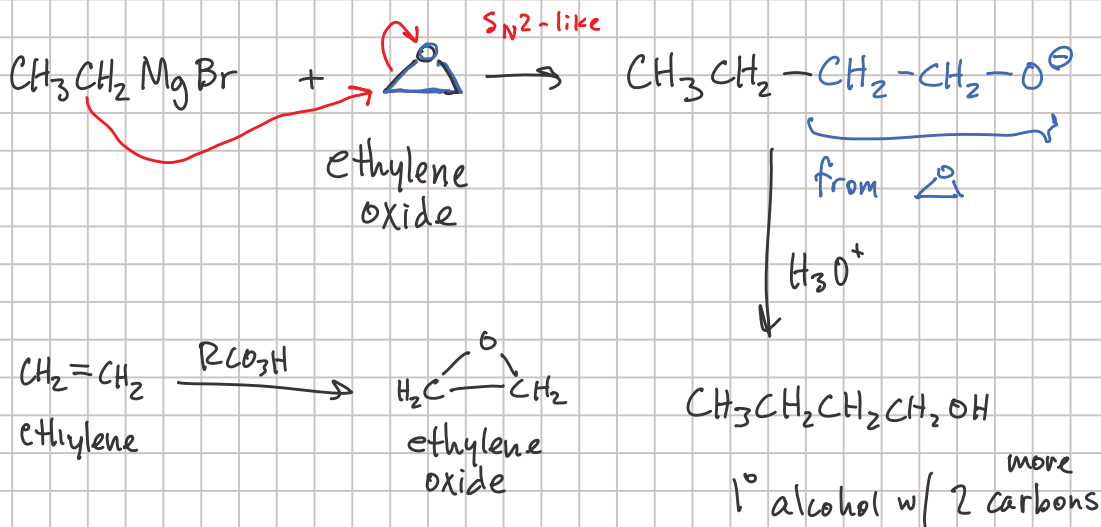
12/7/2005

Final exam Thu Dec 15 4:10 pm S235



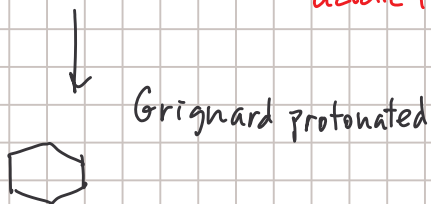
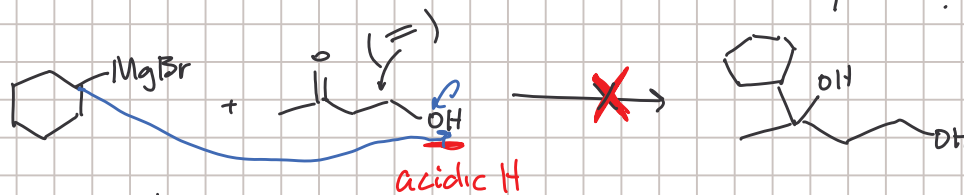
alkoxy groups are good L.G.'s





Limitations of Grignard reagents

- R-MgX is basic so no acidic H⁺'s allowed anywhere!



Mg⁰ ether

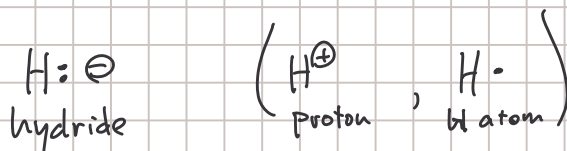


reduction of R-MgX → RH

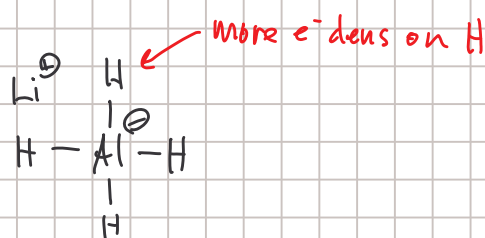
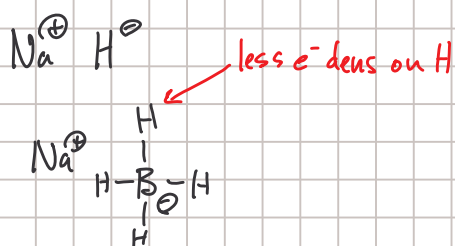
Reductions of carbonyl compounds

reduction: addition of hydrogen (H_2)

hydride reagents



NaH sodium hydride: very strong base

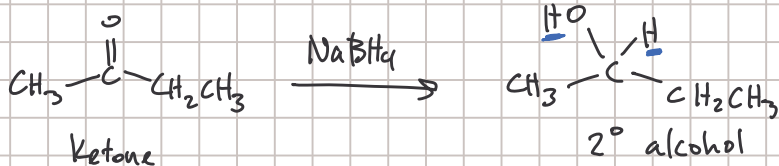
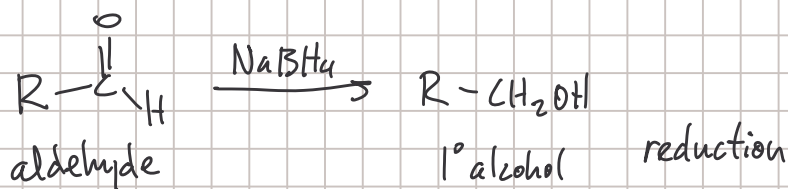
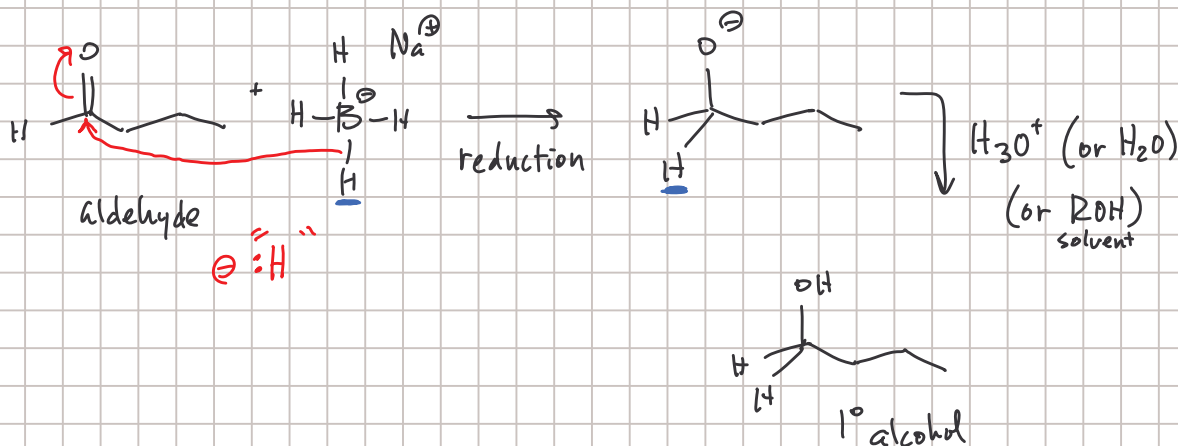


sodium borohydride

lithium aluminium hydride

Boron is more electronegative than Al

stronger, more reactive hydride reagent



LiAlH_4 will also reduce aldehydes & ketones

