

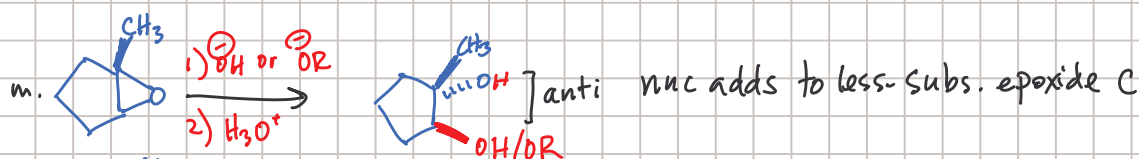
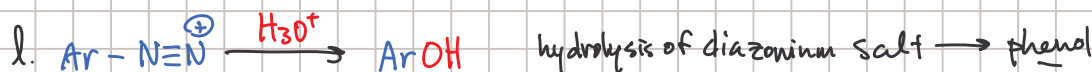
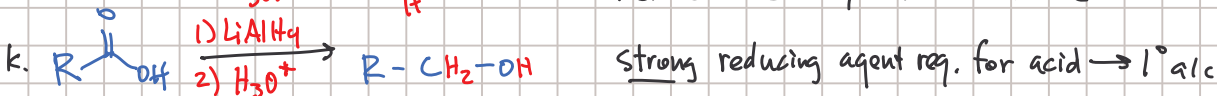
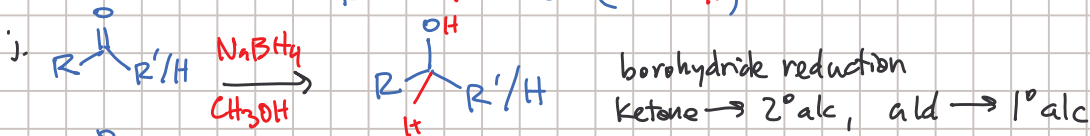
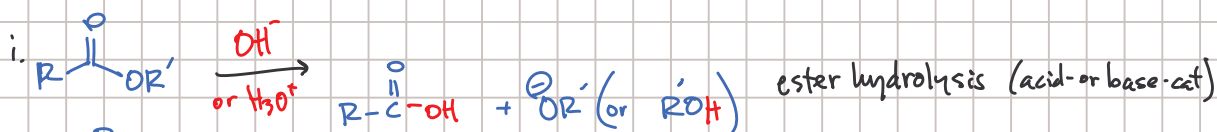
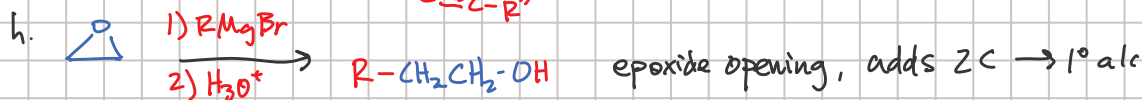
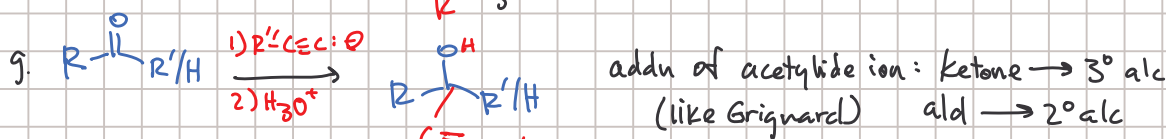
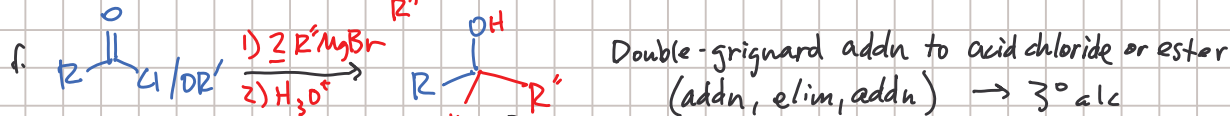
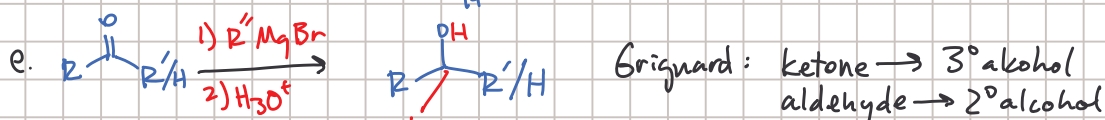
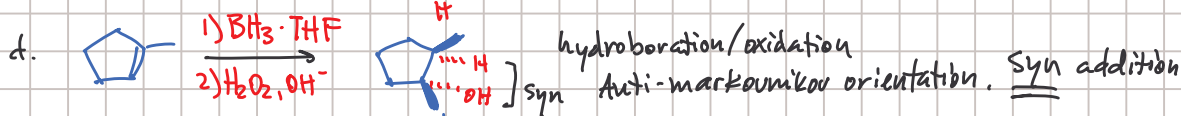
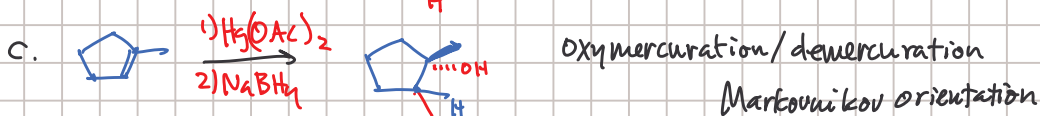
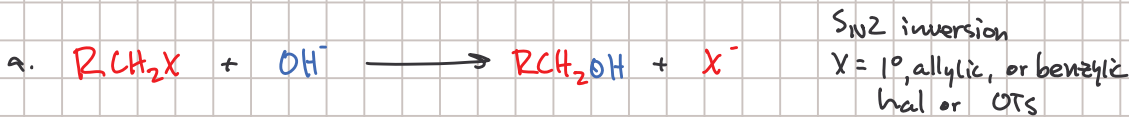
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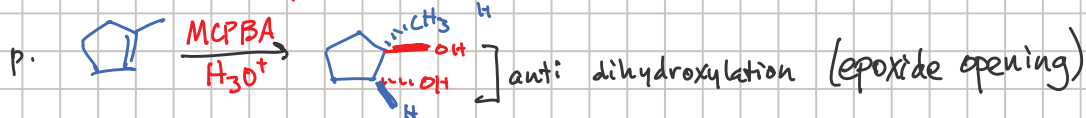
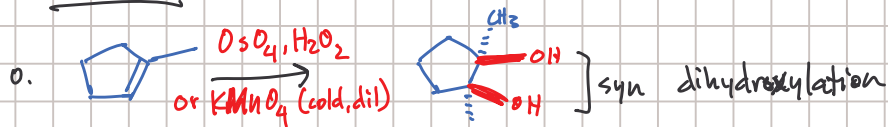
1. Synthesis of Alcohols

Note Title

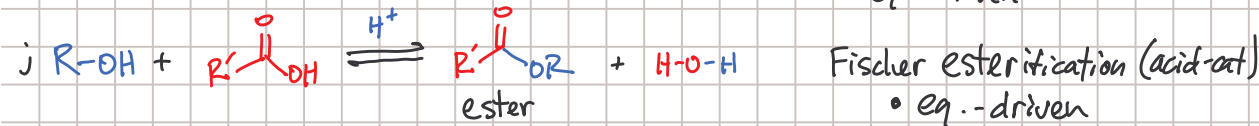
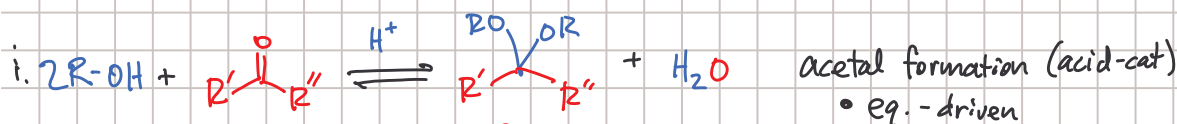
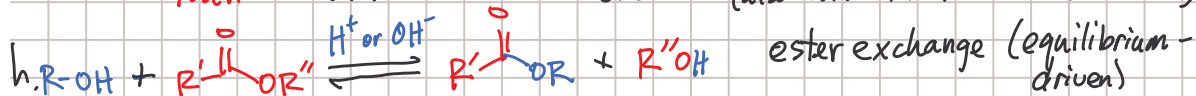
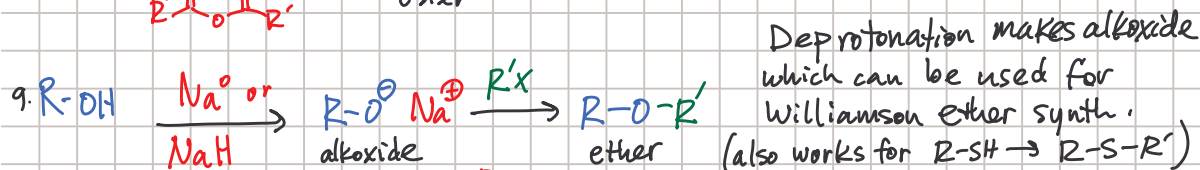
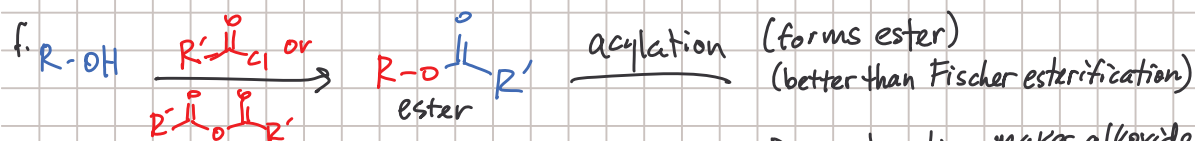
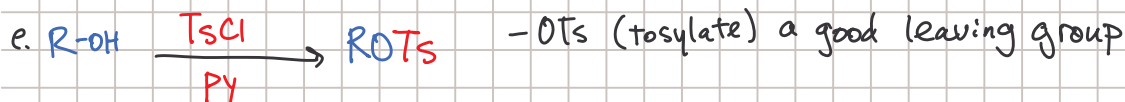
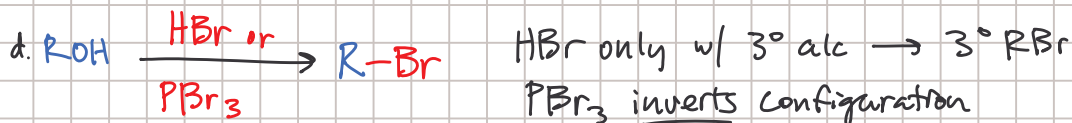
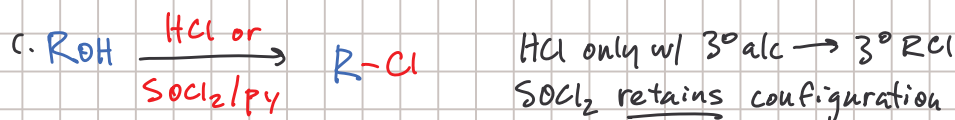
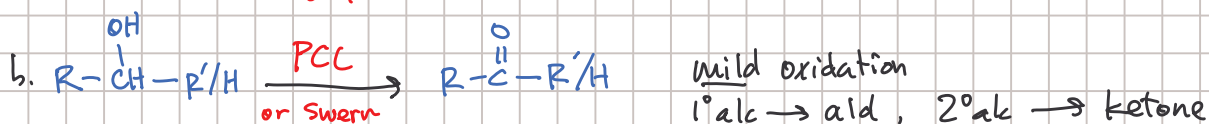
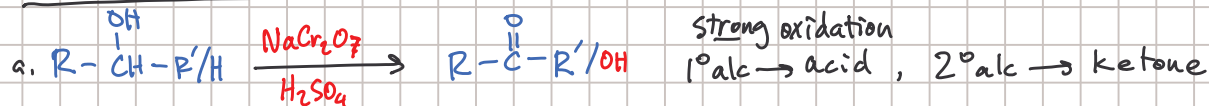
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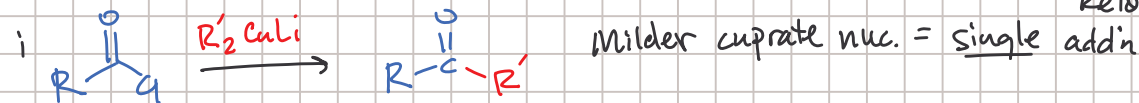
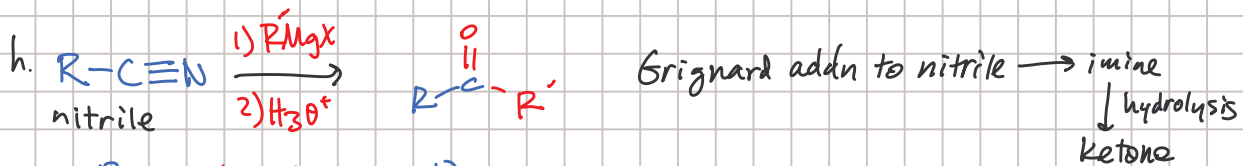
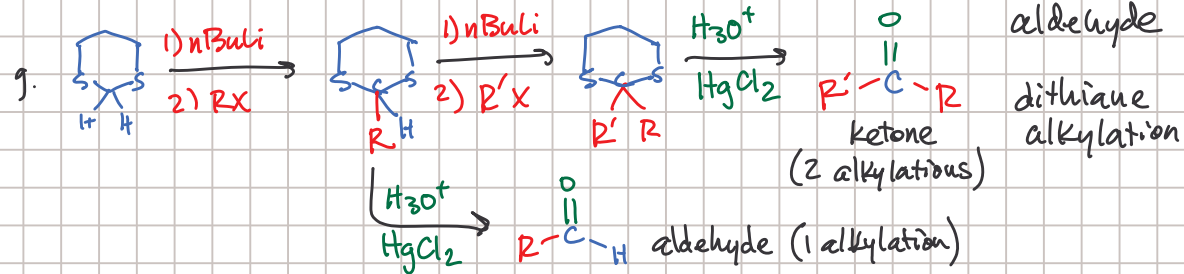
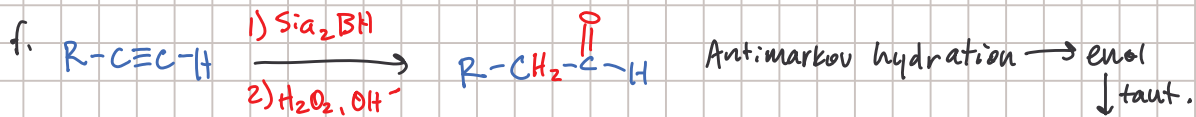
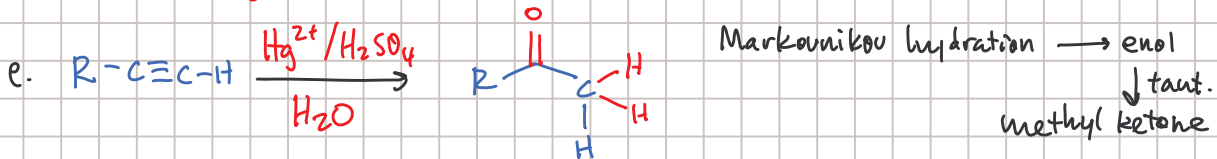
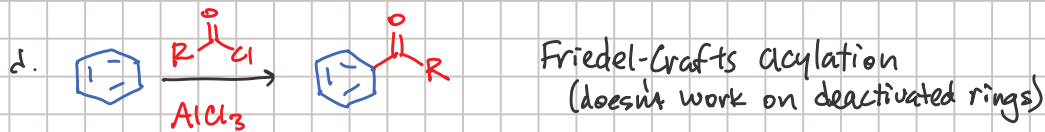
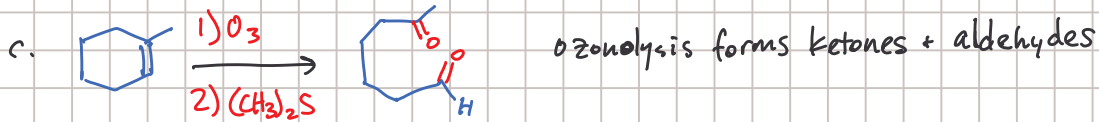
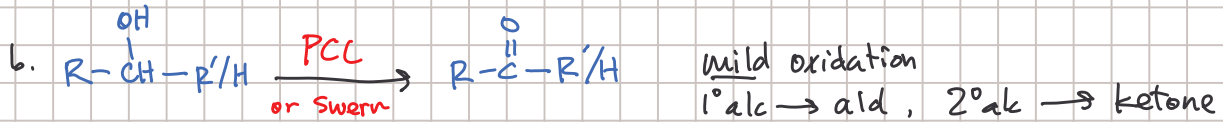
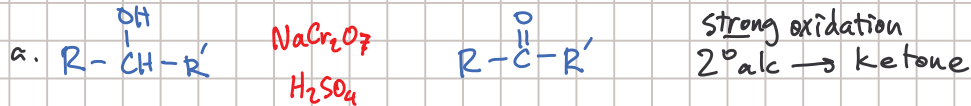
glycols (1,2-diols)



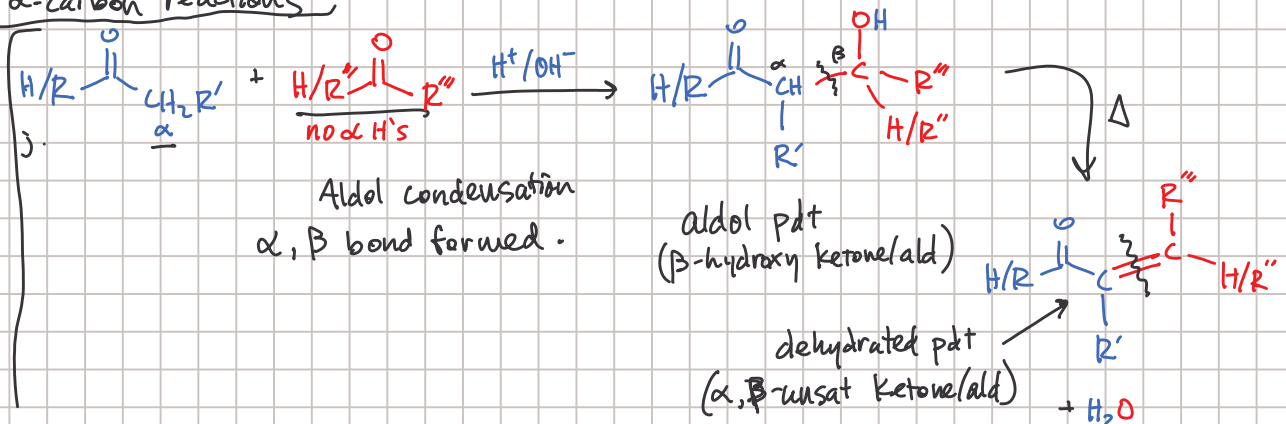
2. Reactions of alcohols

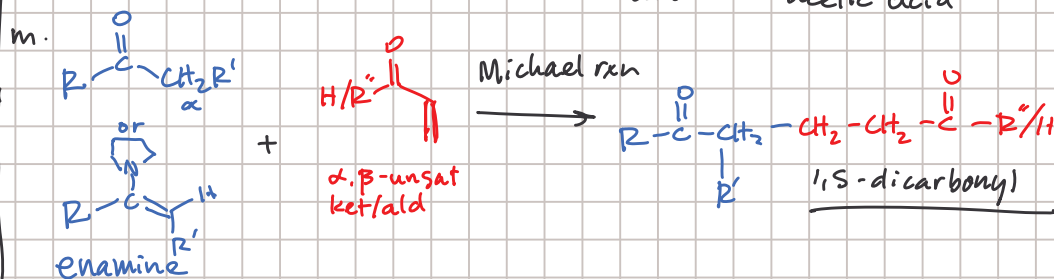
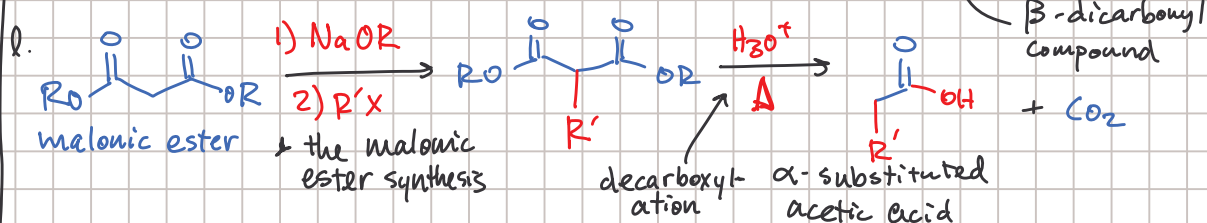
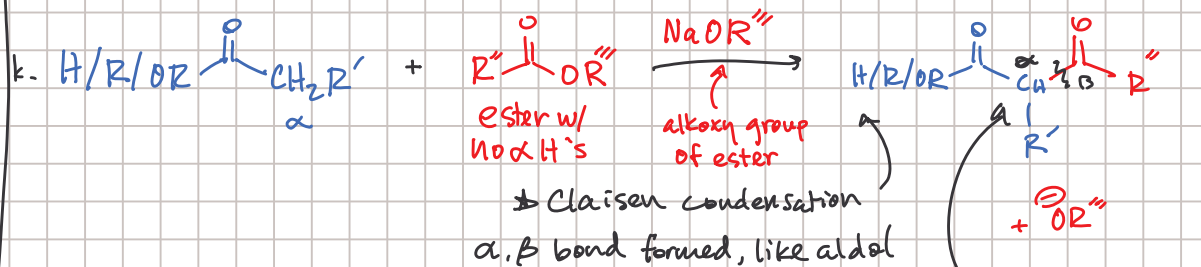


3. Synthesis of ketones/aldehydes



α -carbon reactions

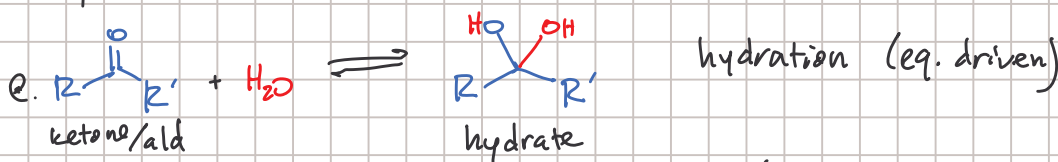
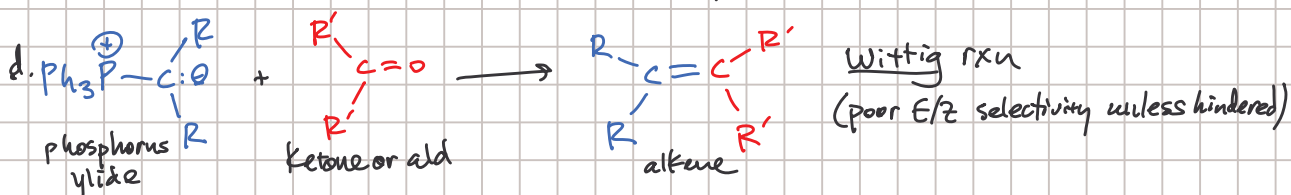
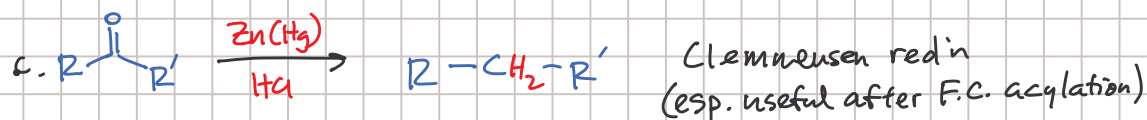




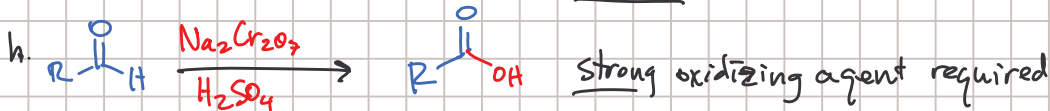
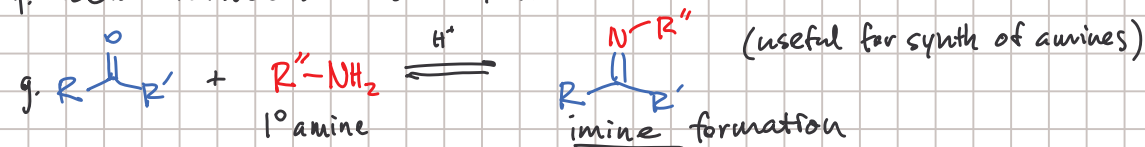
4. Reactions of ketones/aldehydes

a. Reduction: see alcohol synthesis (lj, lk)

b. Grignard: see alcohol synth. (le-g)

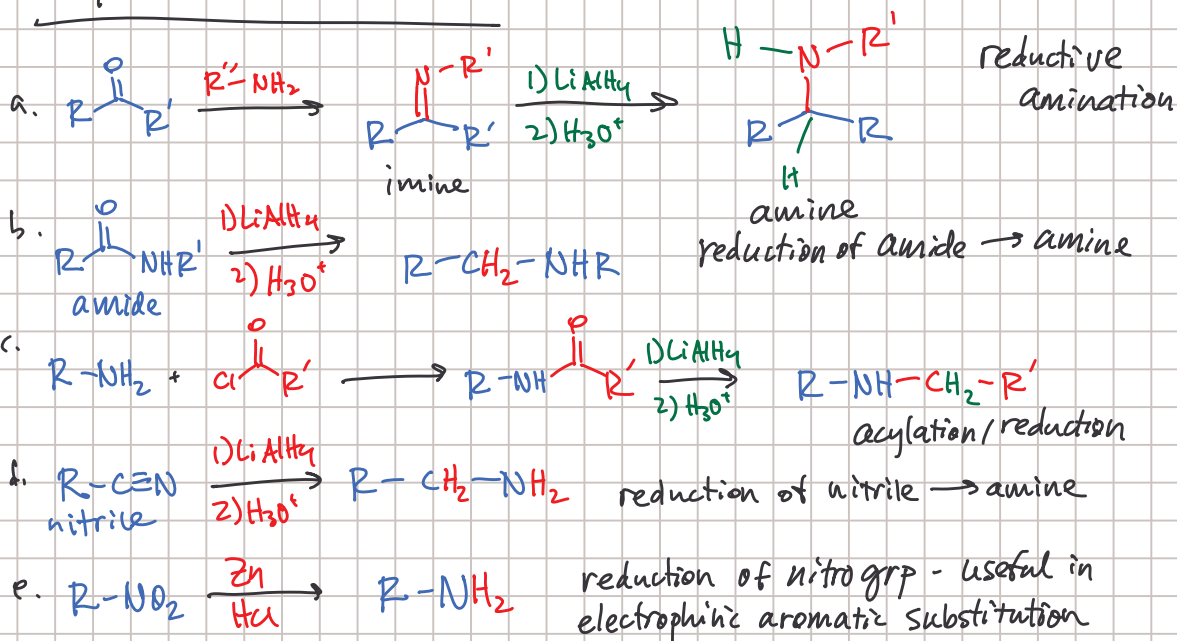


f. acetal formation: see rxn. of alcohols (2i)

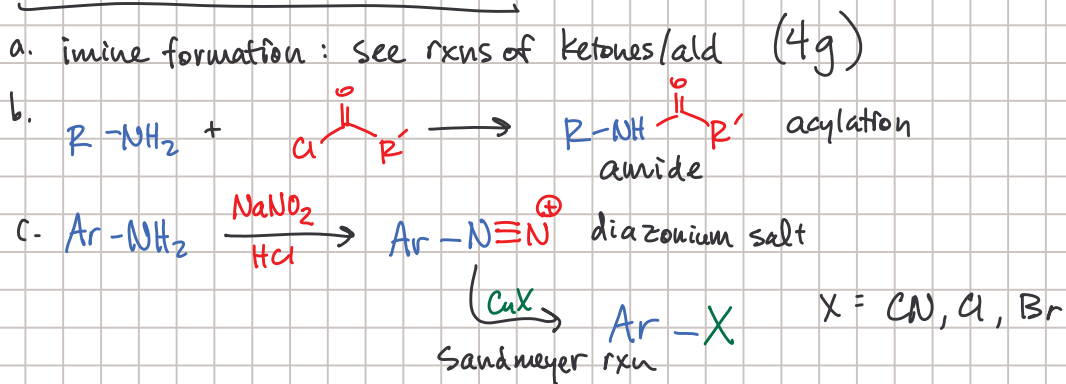


i. reactions at α carbons: see synthesis of ketones/aldehydes (3j-m)

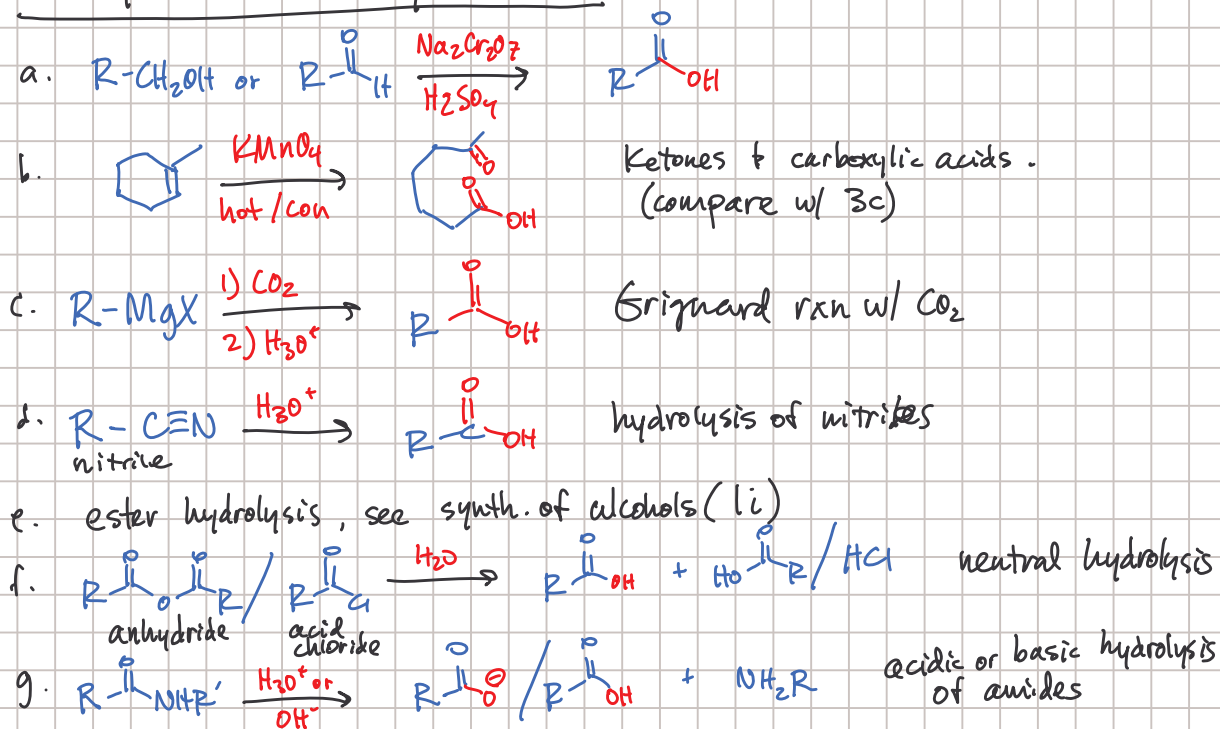
5. Synthesis of amines



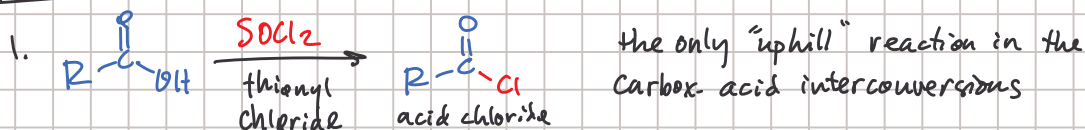
6. Reactions of amines



7. Synthesis of carboxylic acids

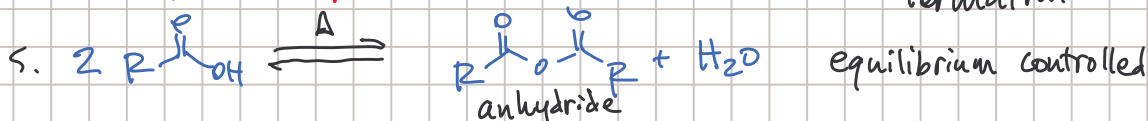
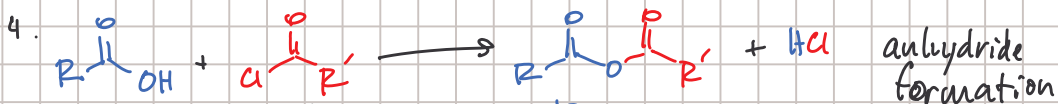


8. Reactions of carboxylic acids and acid chlorides

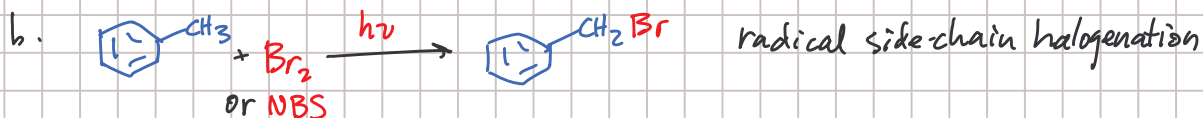


2. ester formation, see rxns of alcohols (2f & 2j)

3. amide formation, see rxns of amines (6b)



9. Reactions of aromatic cpds



e. Friedel-Crafts acylation, see synth of ketones/ald (3d)

f. Clemmensen red'n, see rxns of ketones/ald (4c)

g. Ar-NH₂ formation, see synth of amines (5e)

h. Sandmeyer rxn, see rxns of amines (6c)