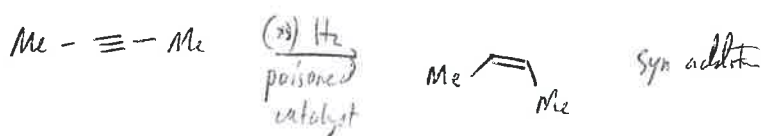
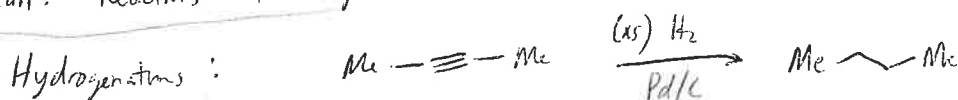


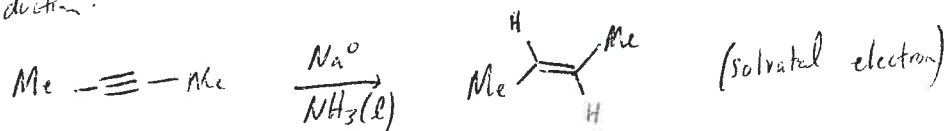
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- Exam #3 on Friday (same rooms as Exam 2)

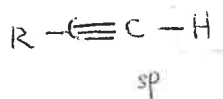
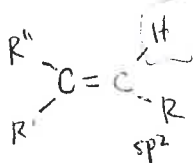
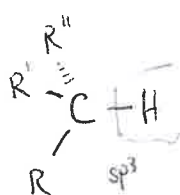
- Recall: Reactions of Alkynes



Dissolving Metal Reduction:



pKa values of hydrocarbons (effect of carbon hybridization)

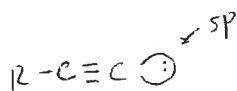
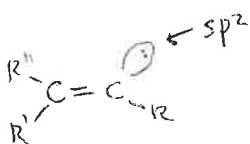


pKa's: >50

42

25

- origin of trend? consider the conjugate base

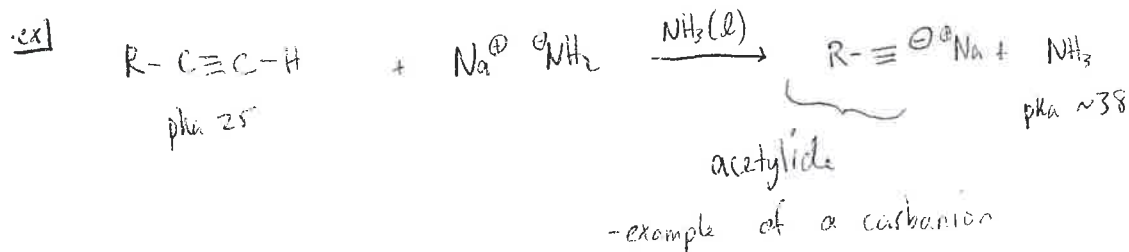


- lower pKa's in progressively ~~lower~~ higher s-character orbitals

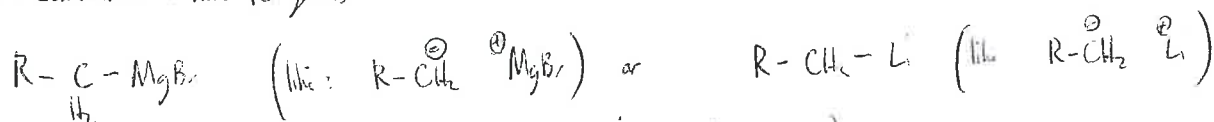
Course Chem 342 Lecturer Gellman
 Day W Date 11/30/14
 Notes Taken By scs Total # of Pages 3

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- Terminal alkynes are unique among hydrocarbons in their susceptibility to deprotonation by accessible bases

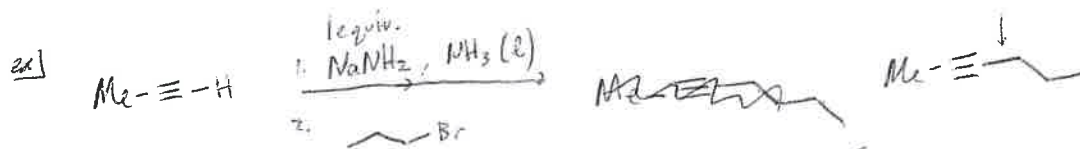


- Recall: carbanion-like reagents:



made from alkyl halides (not deprotonation)

- acetylides, carbon-centered nucleophiles, are very useful for forming new C-C bonds!

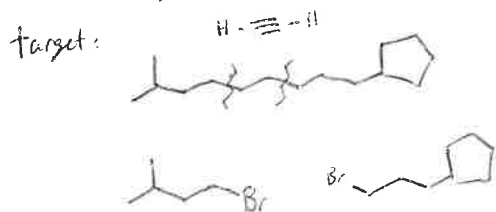


Key step:



limitation: alkyl halide must be primary, more hindered leads to E2

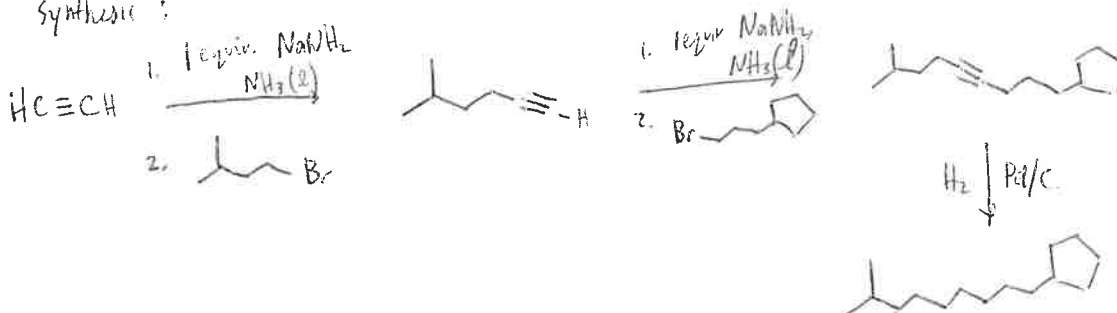
- use of acetylene for synthesis:



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Forward synthesis:



Ch 15: ~~Practice~~ Problem

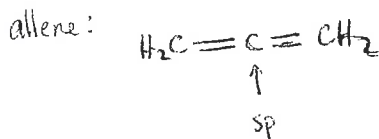
↳ Dienes, Resonance, & Benzene (Aromaticity)

Rec. Problems: 3, 5, 13-26, 28-33, 36-40,
 42-49, 58, 61-69, 71,
 73-84

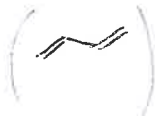
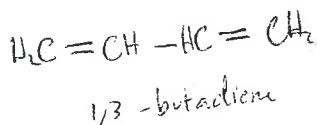
- Diene is a molecule w/ 2 double bonds:

= 3 classes of dienes (based on proximity of 2 alkenes):

① Allenes (cumulenes):



② Conjugated Dienes



③ Isolated or Non-conjugated dienes (more 2 or more carbons between) (σ bonds)

