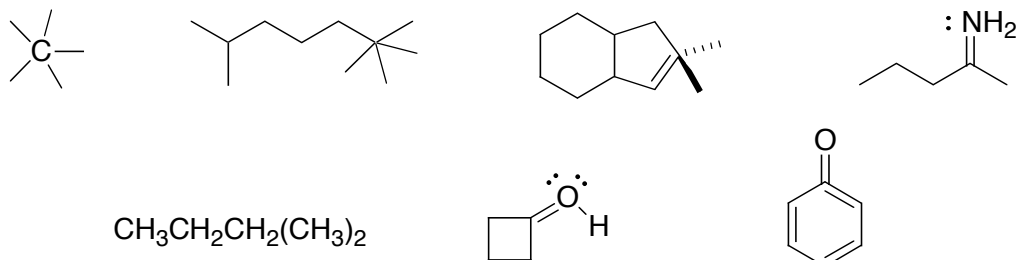
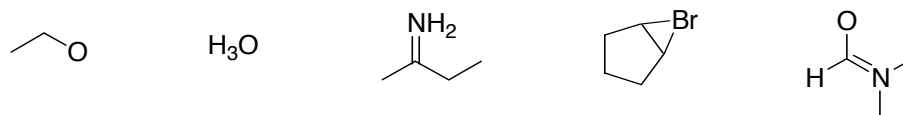
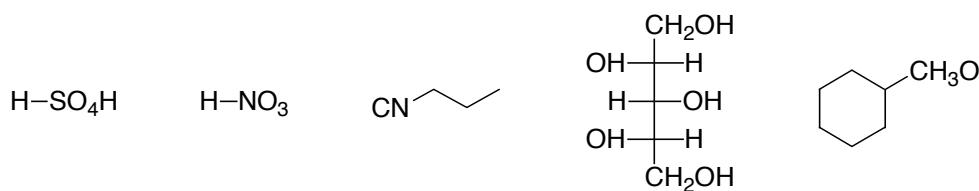
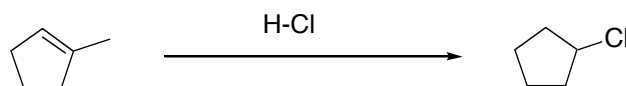
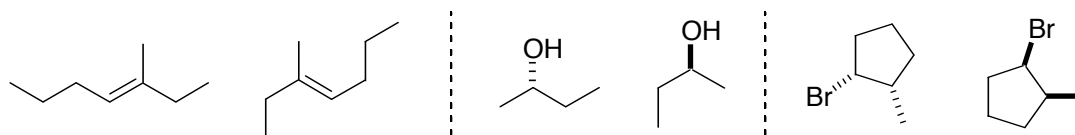
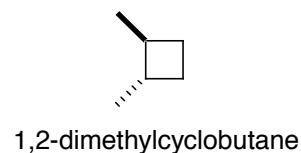
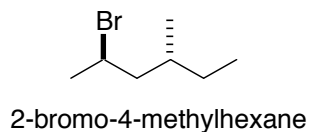
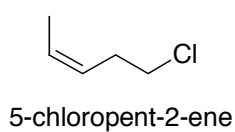
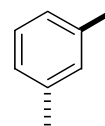
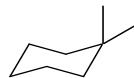
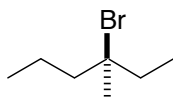
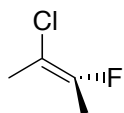


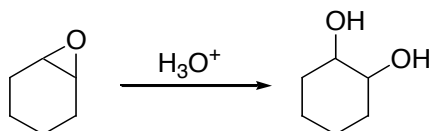
Top 20 All-Time Worst Mistakes in Organic Chemistry(aka *How to Maximize Your Loss of Points*)**COLLECT ALL 20!***Grouped by structure, mechanism, acid-base chemistry**(Generic examples are provided to illustrate errors)****Many of these examples may not be applicable until certain sections in the text are discussed.*****1. Drawing pentavalent carbon (or other 2nd row elements)****2. Not including formal charge****3. Showing Lewis structures that fail to properly represent the intended structure****4. Not counting carbons in reactions****5. Not recognizing identical structures**

6. Forgetting *E/Z*, *R/S*, *cis/trans* prefix in naming compounds

7. Improper use of stereochemistry or 3-D representation



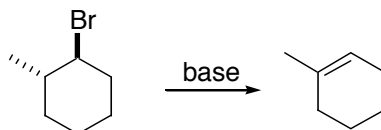
8. Not addressing stereochemistry in products



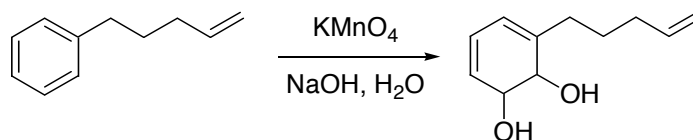
9. Not knowing how to utilize resonance



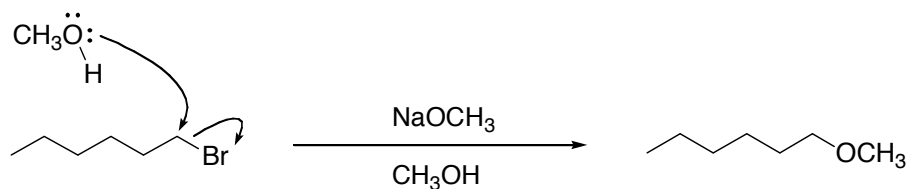
10. Not drawing a chair representation when a cyclohexane ring is present



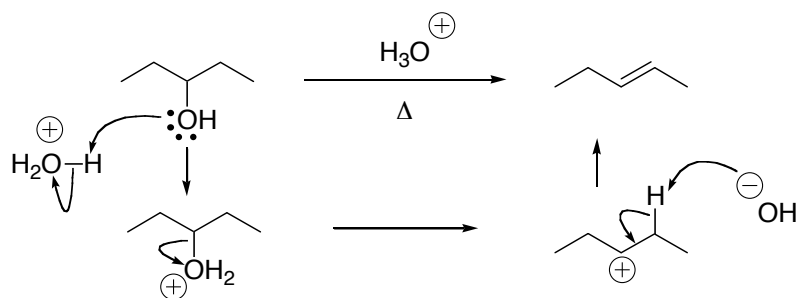
11. Mistaking aromatic ring reactivity for that of an alkene



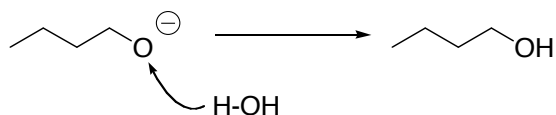
12. Inability to identify the best nucleophile-electrophile pairing



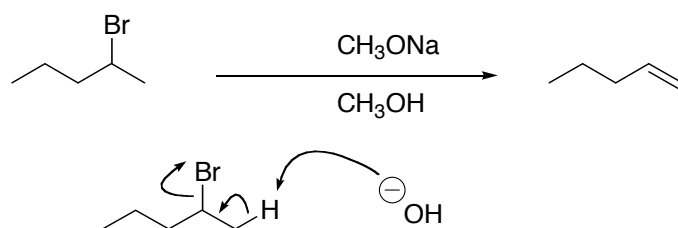
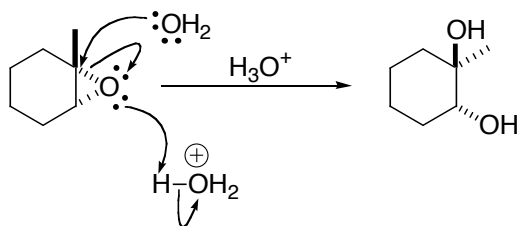
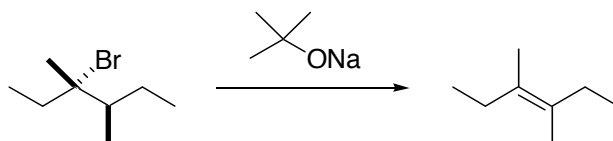
13. Drawing a strong acid in the presence of strong base and vice versa

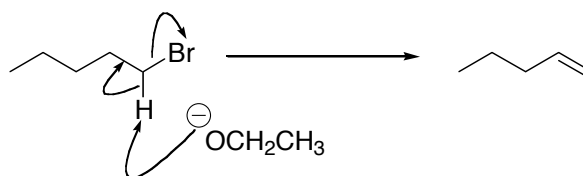
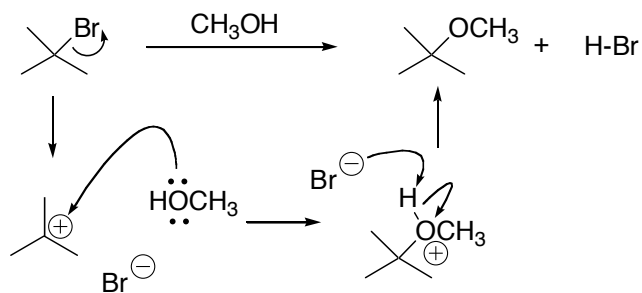
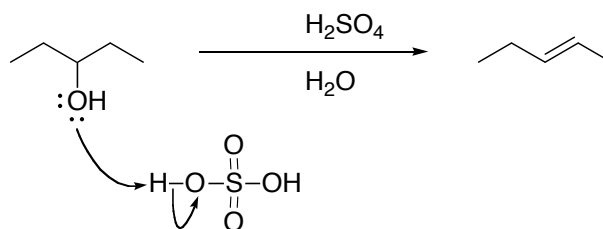


14. Starting a mechanism arrow from an atom without a lone pair or pi bond



15. Using a reagent not given in a mechanism

16. Attempting to show too many mechanistic steps simultaneously; especially showing *termolecular* events17. Not using a Newman projection to predict the outcome of an E2 mechanism (cf. #10)

18. Not identifying a β -H for deprotonation in E1 and E2**19.** Inability to identify the best acid-base pairing**20.** Not utilizing pK_a values

also...avoid spelling, grammar and general conceptual errors:

- keytone, seperate, gauch, flourine,
- Confusing the terms molecule, group, atom