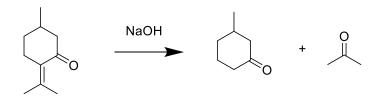
Assignment #6 (Due Apr 8, 2024)

Chem 436 - Spring 2024

- a) Identify the reagent / conditions to obtain the epoxide shown above.
- b) Propose an arrow pushing mechanism to obtain cyclopent-2-en-1-ol starting from the expoide intermediate. (HINT: has similarities to the Wolff-Kishner Reaction)
- 2) Propose a route for the following synthesis.

3) Draw the complete curved arrow pushing mechanism for the following reactions.



4) Starting from <u>ANY</u> reagent, come up with two multistep reaction sequences that must be at least five steps long. At least one reaction must be from material covered after the MT2 cut-off.

a)

b)

5) Were you satisfied with how do you think you did in Midterm #2? What changes will you make to improve your results?