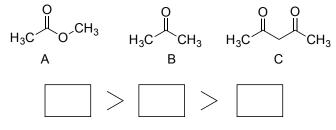
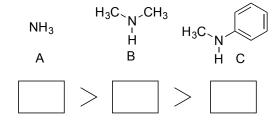
1 (24 points).

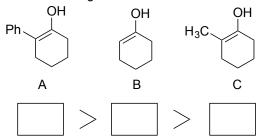
a. Rank the following compounds from most to least acidic.



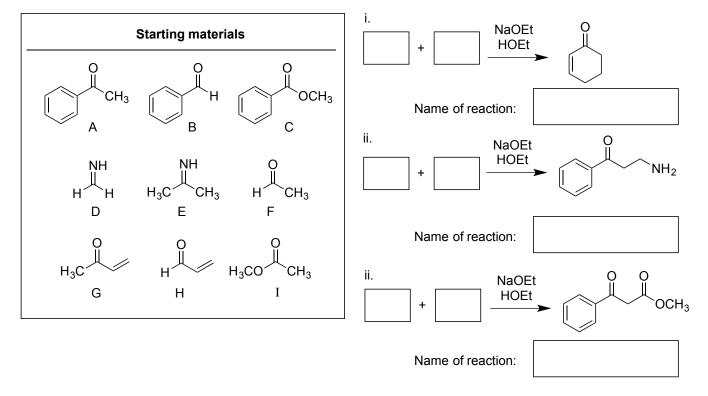
b. Rank the following compounds from strongest to weakest base.



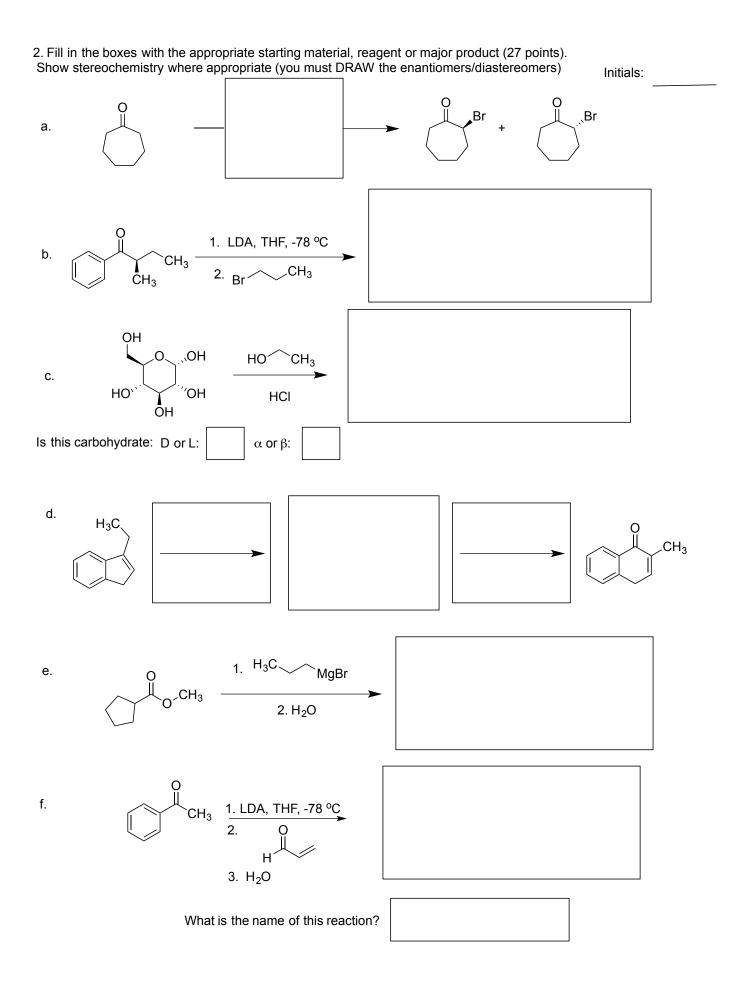
c. Rank the following enols from most to least stable:

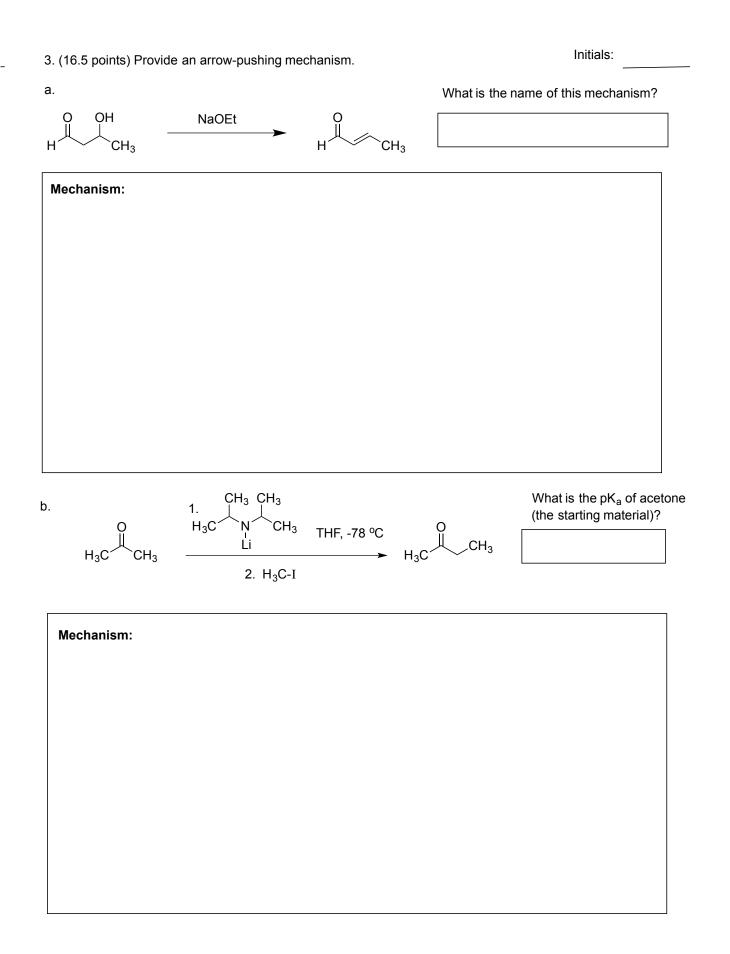


d. Which starting materials would you combine in the presence of NaOEt and HOEt to complete the syntheses?



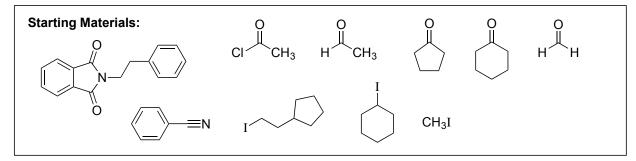
Initials:



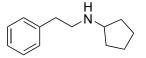


Initials:

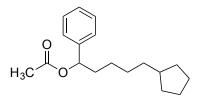
4. (14 points) Propose syntheses of the targets below. **All carbons** must come from the starting materials provided, you can use any reagent you wish. **YOU CAN IGNORE STEREOCHEMISTRY.**



Target A.

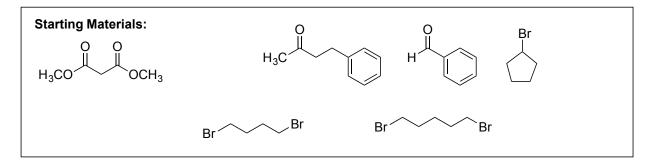


Target B.



Initials:

5. (12 points) Propose syntheses of the targets below (10 points). Init **All carbons** must come from the starting materials provided, you can use any reagent you wish. **YOU CAN IGNORE STEREOCHEMISTRY.**







Target B.

