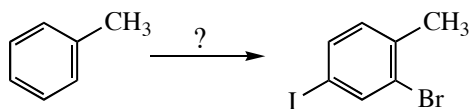


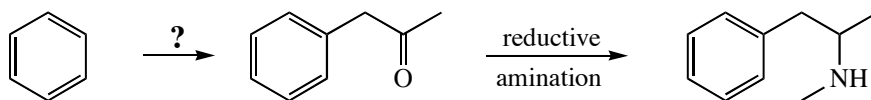
In Class problems for last lecture:

Two problems from Practice Problems 10:

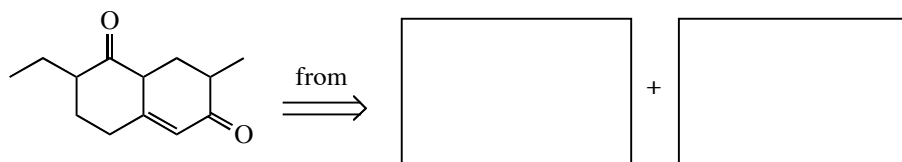
1. Provide reagents for the following synthesis. If more than one step is required, number individual steps.



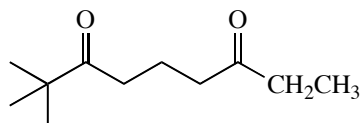
2. For the following synthesis, use a reductive amination in the final step to make a β -phenethylamine.



3. Show the two organic reagents that would be used to synthesize the following compound by a Robinson Annulation.



4. (8 points) Show how you can make the following compound via a Michael reaction. Your Michael donor must be a stabilized enolate or an enamine.



5. A research chemist is trying to understand Claisen Condensations. He adds one mole of each of the following chemicals together into an ethanol solution and then he adds one mole of sodium ethoxide to the mixture. What is the major product of this reaction?

