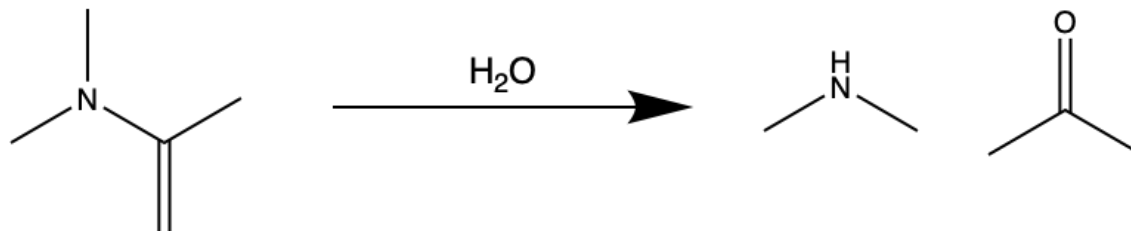


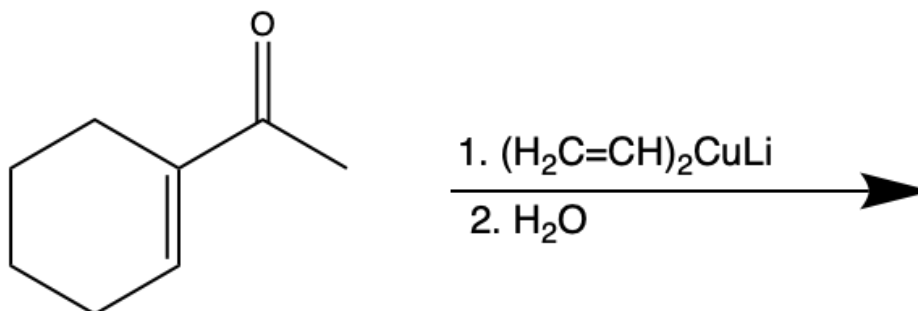
Midterm 2 Review Packet:

1. Draw the mechanism for Enamine Hydrolysis

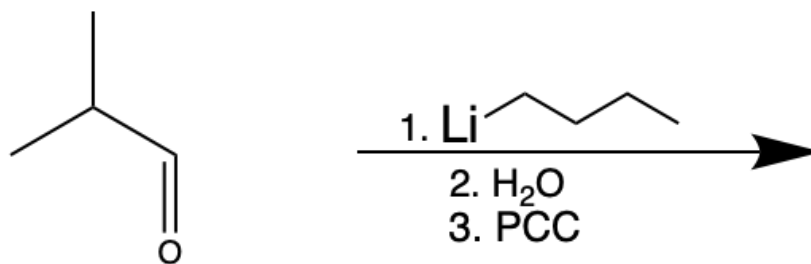


2. Draw the product or starting material for the following reactions

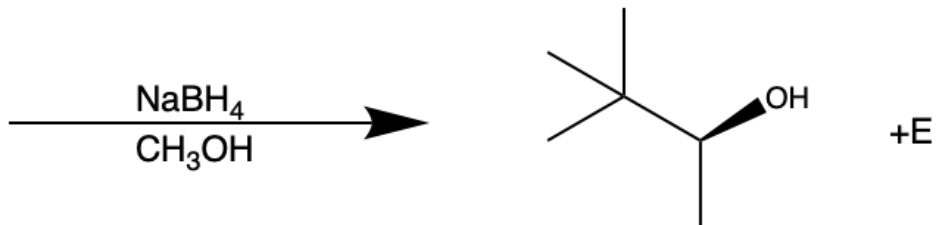
A.



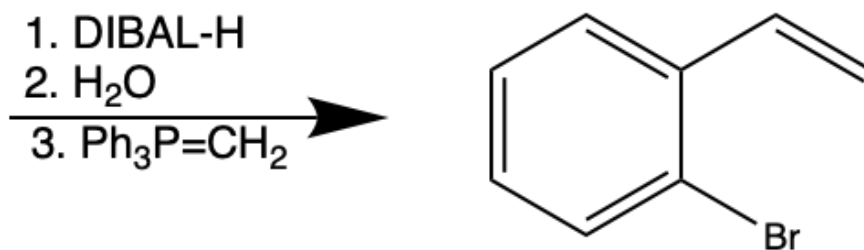
B.



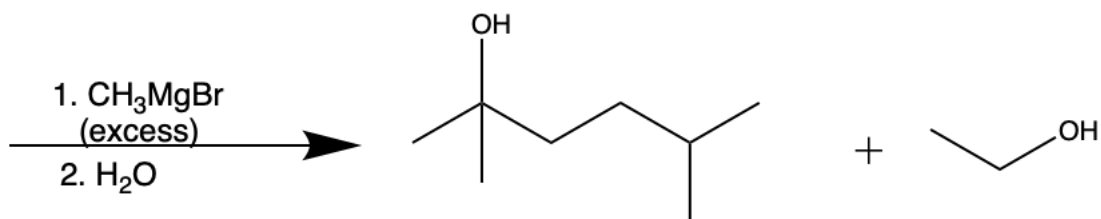
C.



D.

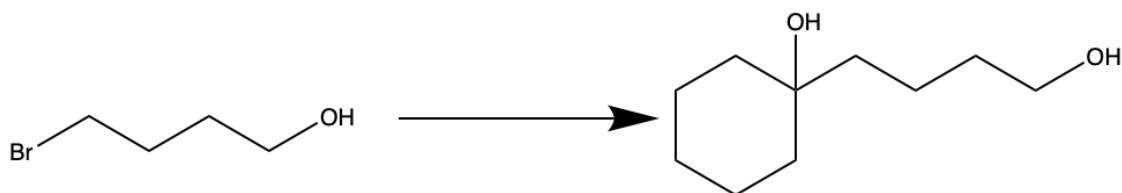


E.

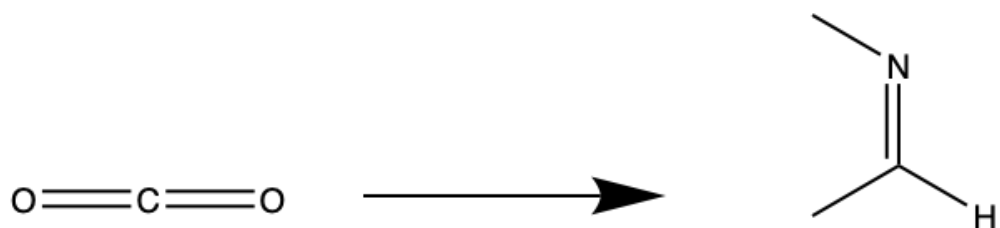


3. Provide the necessary reagents to produce the products from the starting material. Draw all intermediates.

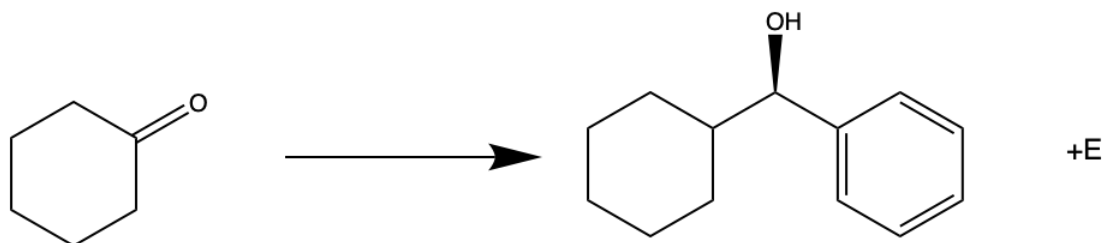
A.



B.

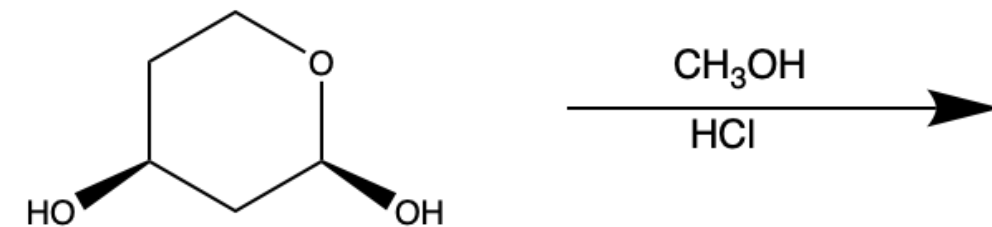


C.

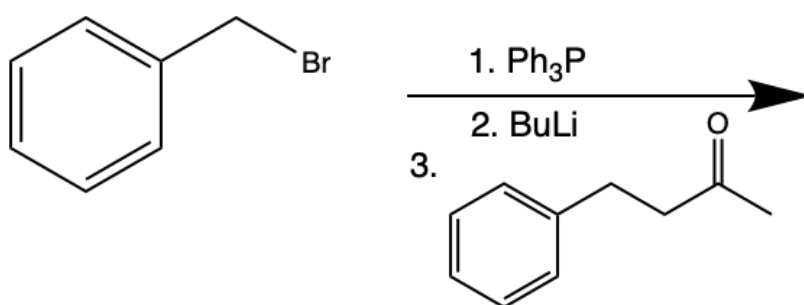


4. Draw the product or starting material for the following reactions

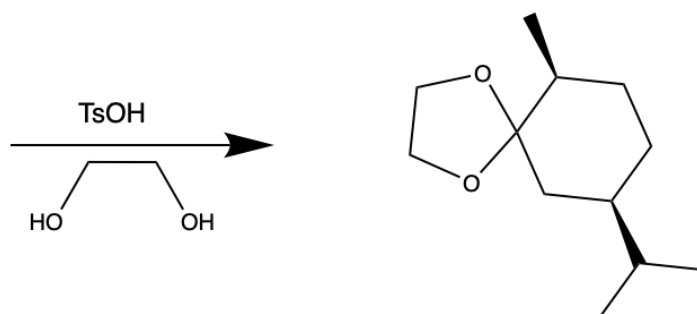
A



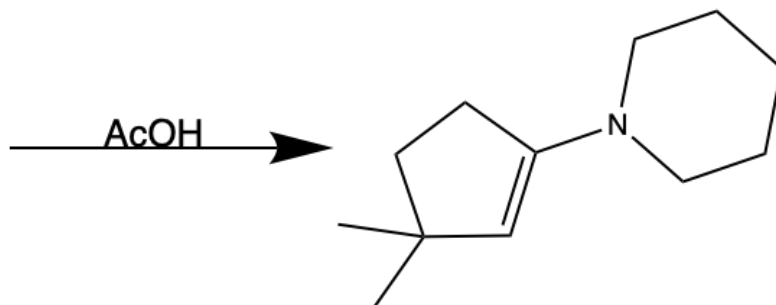
B.



C.

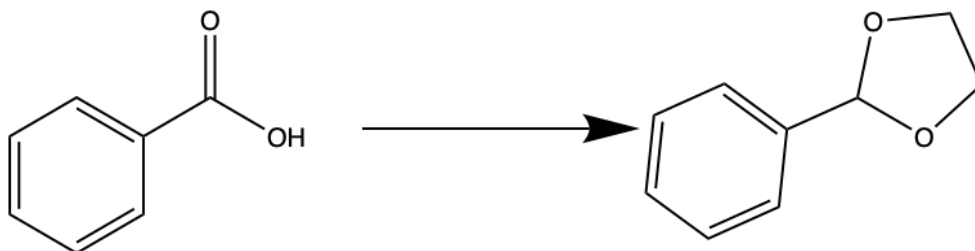


D.



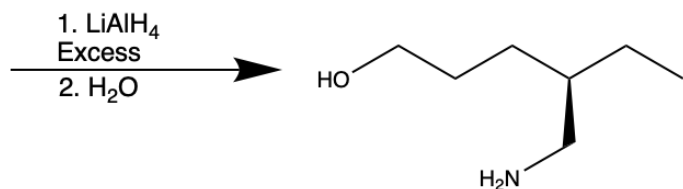
5. Provide the necessary reagents to produce the products from the starting material. Draw all intermediates.

A.

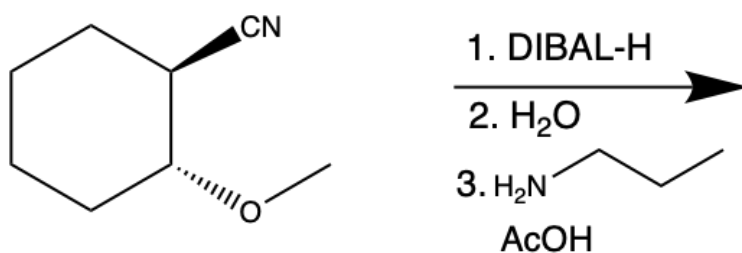


6. Draw the product, starting material, or reagents for the following reactions

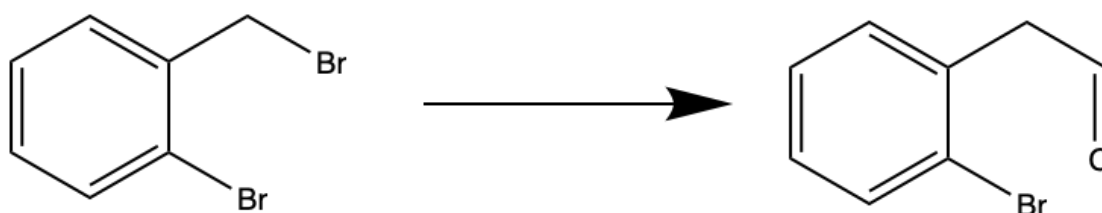
A.



B.

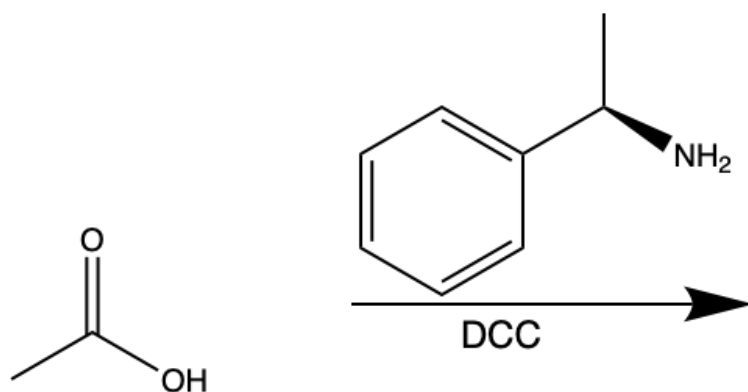


C.

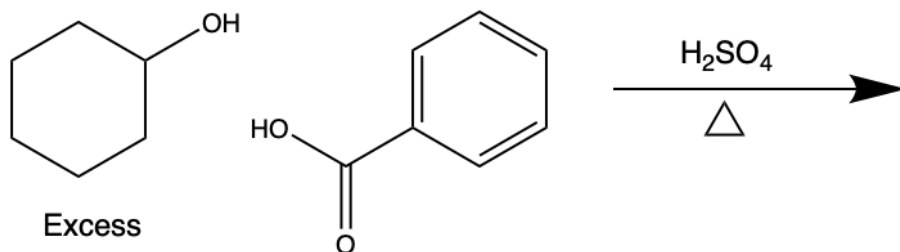


7. Draw the product or starting material for the following reactions

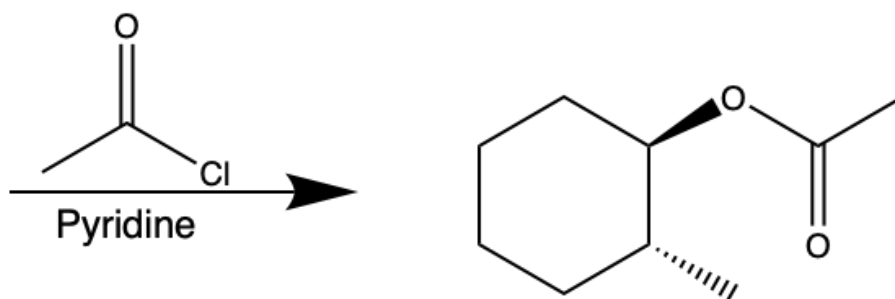
A.



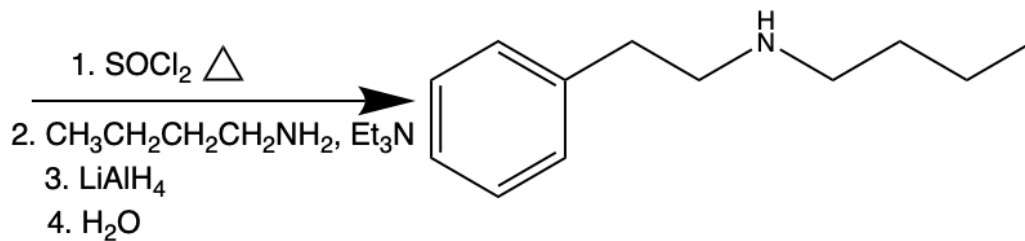
B.



C.

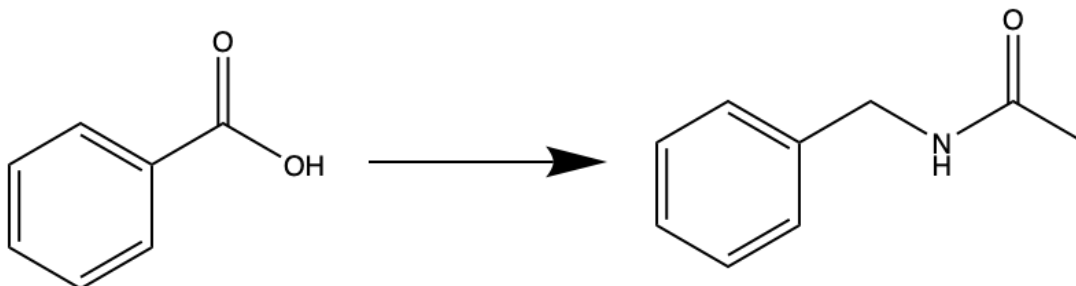


D.

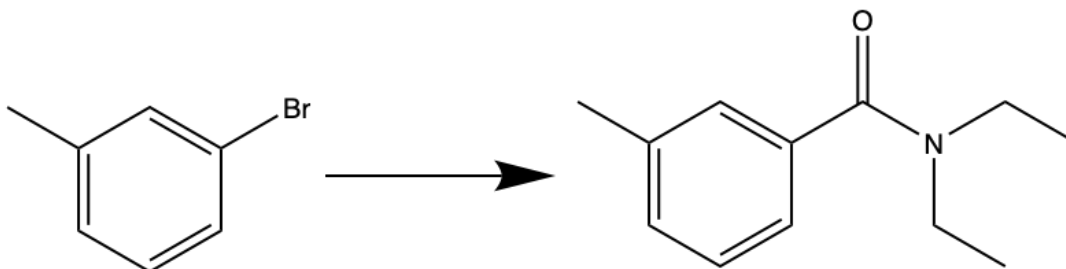


8. Provide the necessary reagents to produce the products from the starting material. Draw all intermediates.

A.



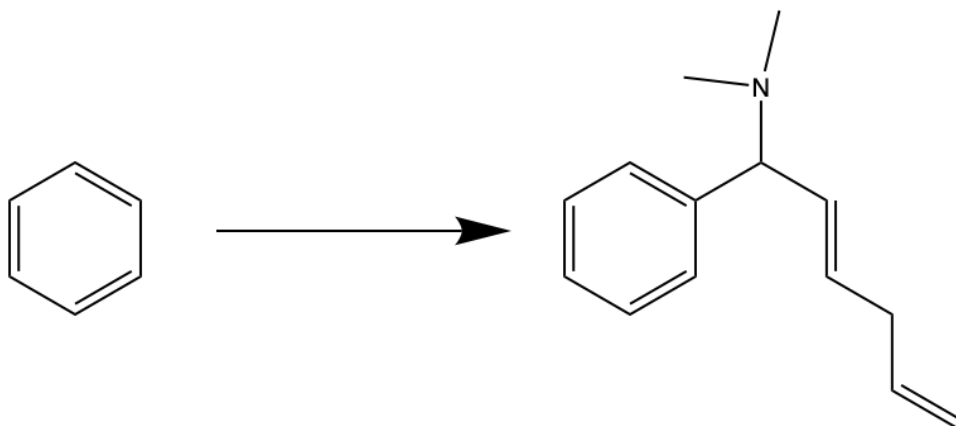
B.





Challenge Questions: Determine the reagents needed for the follow reactions (much harder than what you would see on exams so don't worry if you cannot solve these)

A. (5 steps)



B. (8 steps)

