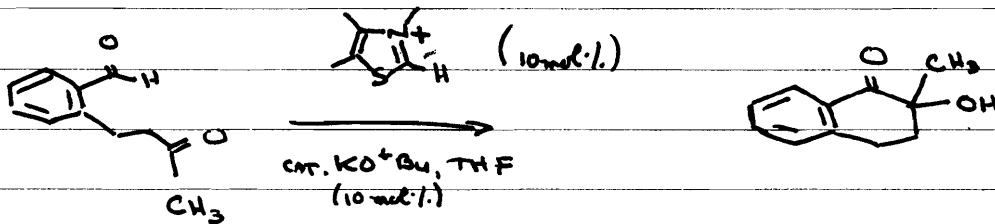


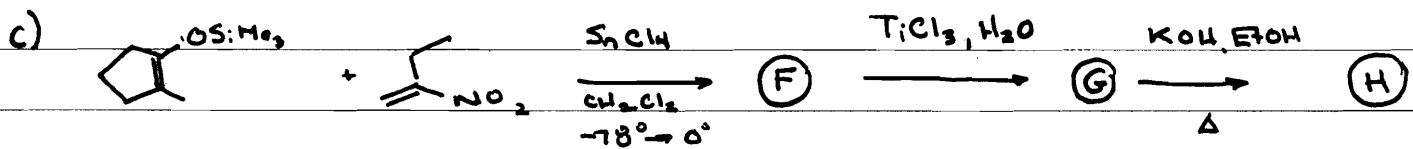
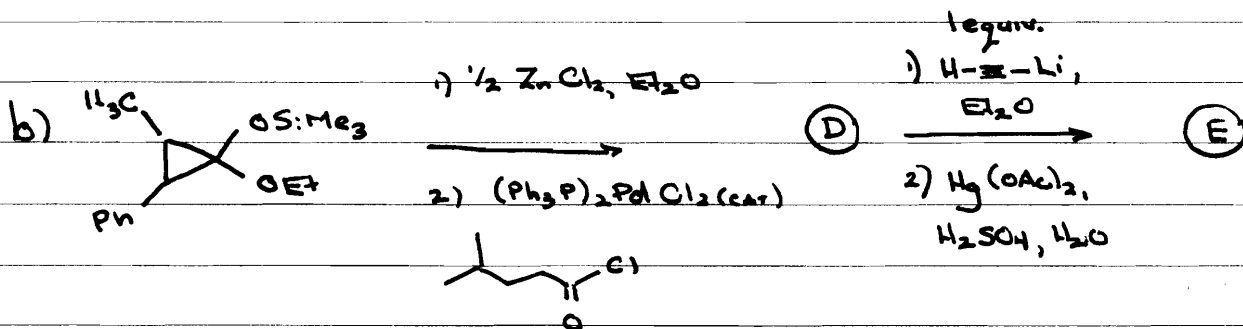
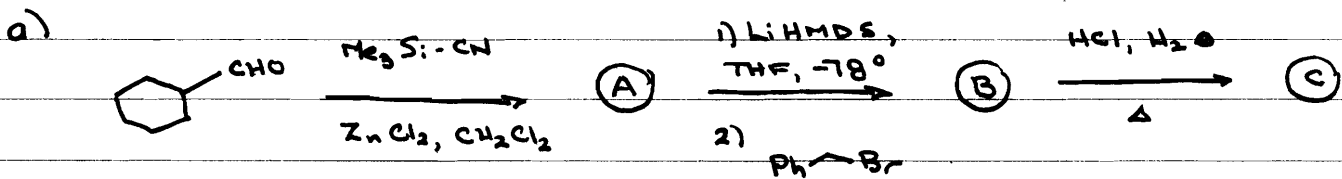
ASSIGNMENT #1

1. PROPOSE A REASONABLE MECHANISM FOR THE FOLLOWING TRANSFORMATION

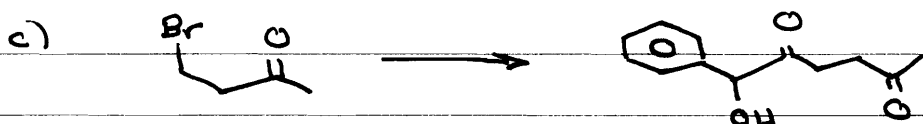
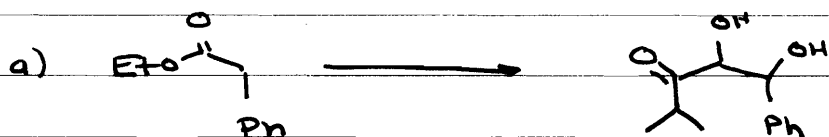


2. SUGGEST THE MOST REASONABLE PRODUCTS FOR THE FOLLOWING TRANSFORMATIONS.

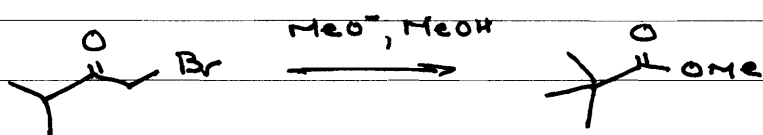
EXPLAIN ANY NON OBVIOUS POINTS, AND SHOW ANY INTERMEDIATES THAT COULD BE ISOLATED.



3. PROPOSE REASONABLE SYNTHESIS OF THE INDICATED COMPOUNDS FROM THE GIVEN STARTING MATERIALS. YOU MAY USE ANY OTHER REAGENTS YOU DEEM FIT, ALTHOUGH THESE QUESTIONS WERE DESIGNED TO USE CONCEPTS RELATED TO THIS COURSE. SHOW ALL REAGENTS, CONDITIONS, ISOLABLE INTERMEDIATES, AND EXPLAIN ANY NON-OBVIOUS POINTS.

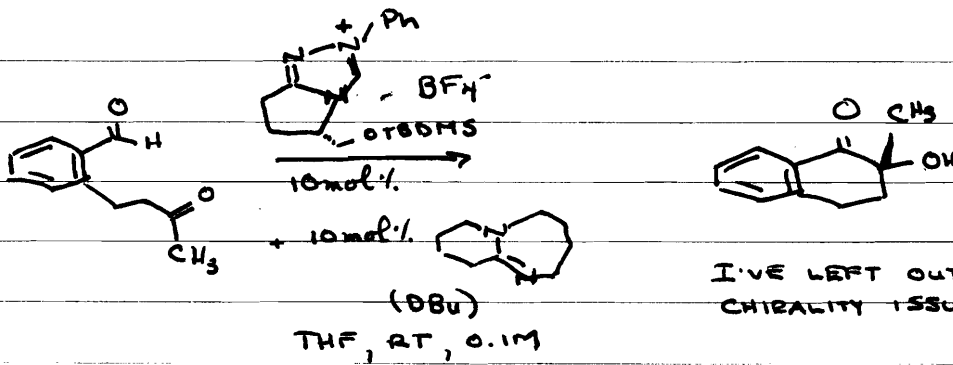


4. THE FOLLOWING IS CLEARLY RELATED TO OUR COURSE MATERIAL, BUT NOT DISCUSSED IN CLASS. CAN YOU PROPOSE A REASONABLE MECHANISM FOR THE FOLLOWING REARRANGEMENT REACTION? IT IS A WELL KNOWN NAME REACTION, BUT YOU GET THE NAME WITH THE SOLUTIONS.



ASSIGNMENT #1

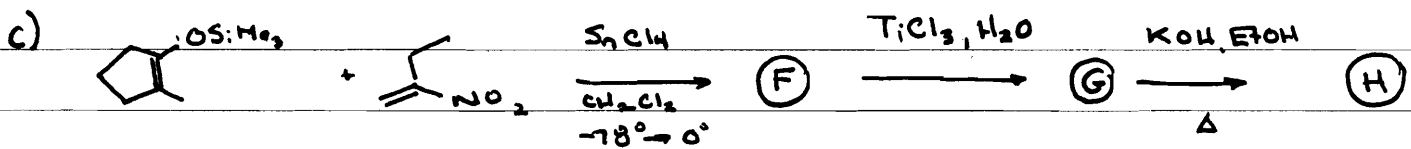
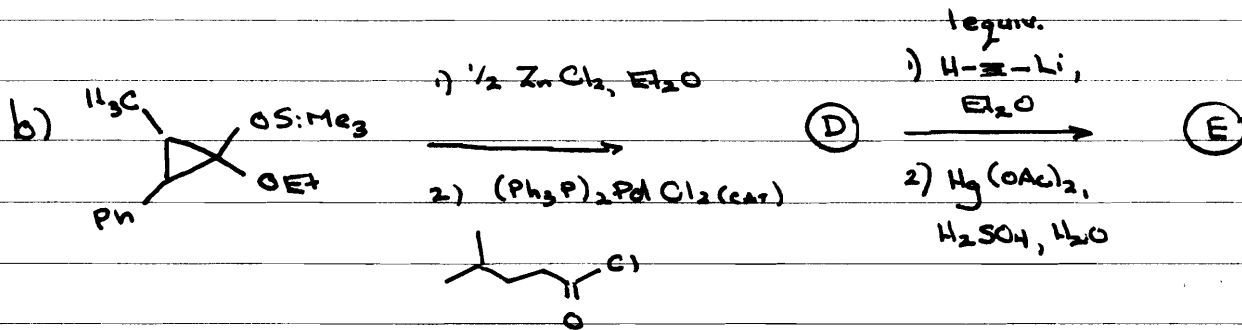
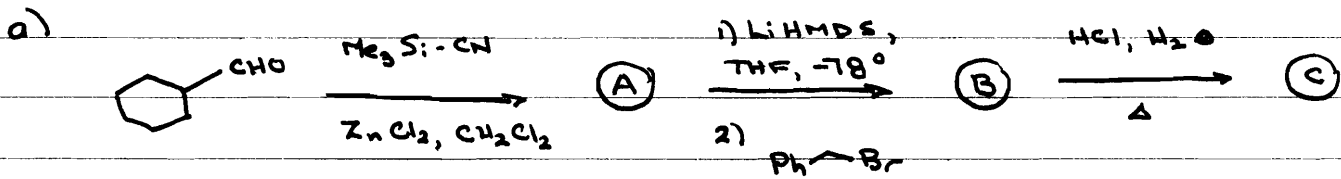
1. PROPOSE A REASONABLE MECHANISM FOR THE FOLLOWING TRANSFORMATION



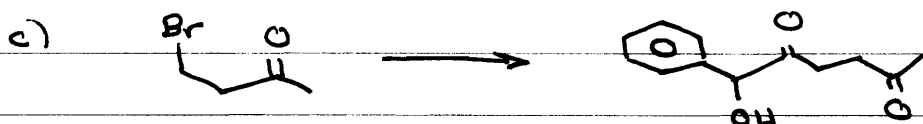
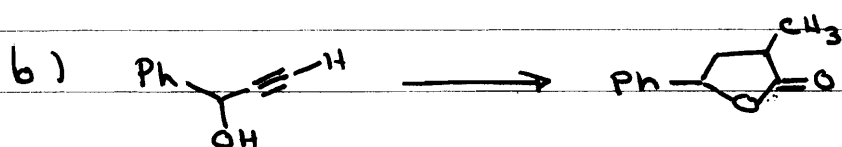
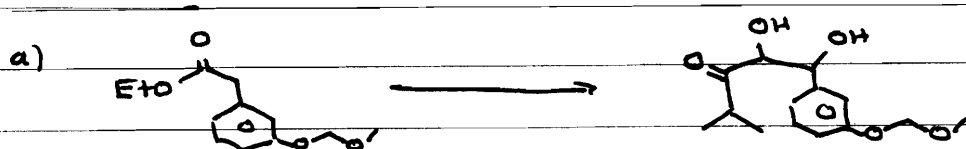
I'VE LEFT OUT THE CHIRALITY ISSUE.

2. SUGGEST THE MOST REASONABLE PRODUCTS FOR THE FOLLOWING TRANSFORMATIONS.

EXPLAIN ANY NON OBVIOUS POINTS, AND SHOW ANY INTERMEDIATES THAT COULD BE ISOLATED.



3. PROPOSE REASONABLE SYNTHESIS OF THE INDICATED COMPOUNDS FROM THE GIVEN STARTING MATERIALS. YOU MAY USE ANY OTHER REAGENTS YOU DEEM FIT, ALTHOUGH THESE QUESTIONS WERE DESIGNED TO USE CONCEPTS RELATED TO THIS COURSE. SHOW ALL REAGENTS, CONDITIONS, ISOLABLE INTERMEDIATES, AND EXPLAIN ANY NON-OBVIOUS POINTS.



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