



## CHEM 8410\_6410\_4410 – Organic Synthesis

THE UNIVERSITY OF  
**TOLEDO**  
1872

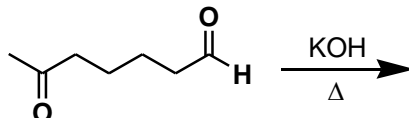
<b>Instructor:</b>	Prof. Andriana
<b>Room #:</b>	BO 2059

Quiz #1 of 5                      10 PTS

Your Name: \_\_\_\_\_

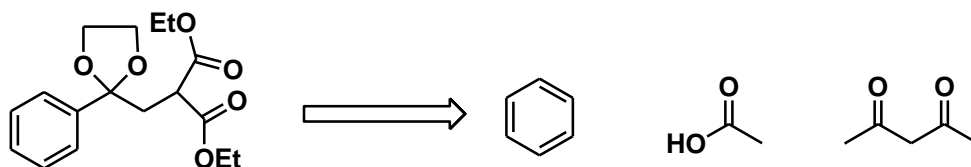
Student Number: \_\_\_\_\_

1) Identify the intramolecular products from the reaction of the following dicarbonyl compound treated with base & heat. **3 PTS** (1 point for each answer provided)



ANSWER:

2) You are now becoming a synthetic chemist and are being asked to synthesize target molecule **A** from the starting materials given. **3 PTS**



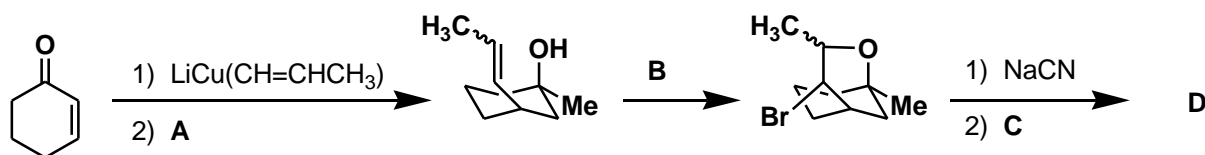
**A**  
ANSWER:



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3) Provide the missing reagents/structures for the “roadmap” below. (**A** = reagent, **B** = reagent, **C** = reagent, **D** = structure). Structure **D** contains a carboxylic acid. **4 PTS**



**ANSWER:**