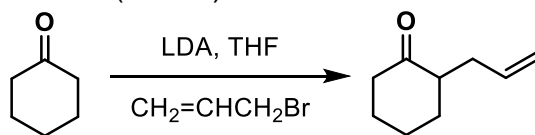




Quiz 1

1. **Problem:** Provide a detailed mechanism of the following reaction and include two possible reaction pathways. Is the reaction stereospecific or stereoselective or neither? Explain. What are the names of the substrates? (6 PTS)

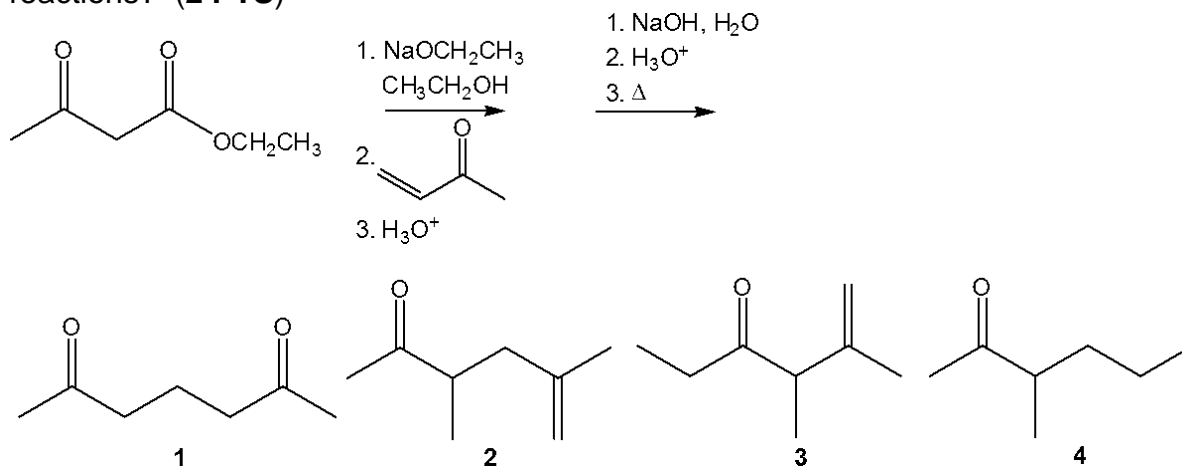




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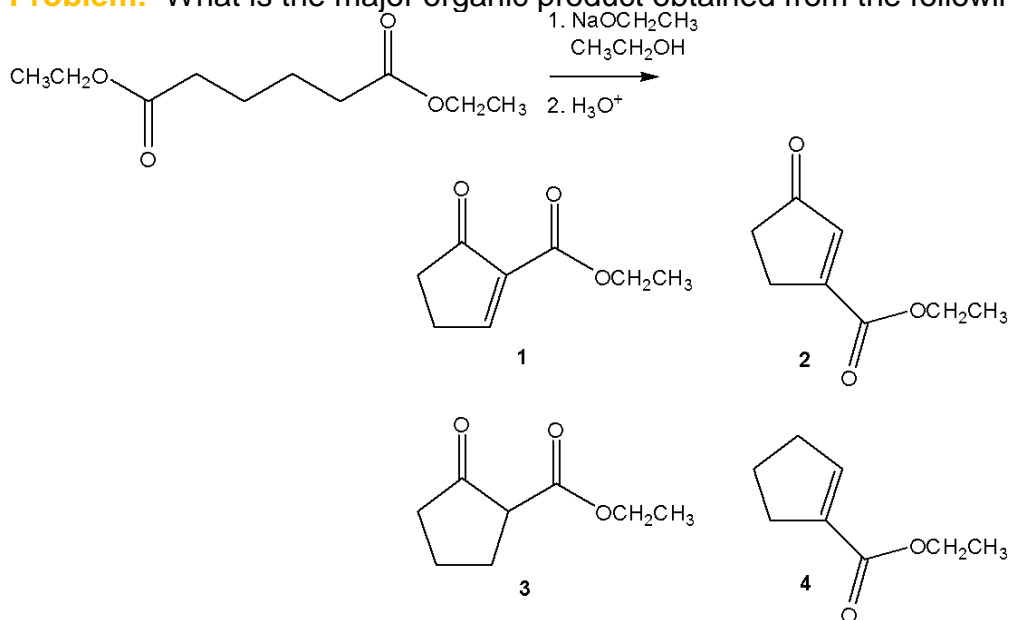
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2. **Problem:** What is the major organic product obtained from the following sequence of reactions? (2 PTS)



- a. 1
b. 2
c. 3
d. 4

3. **Problem:** What is the major organic product obtained from the following reaction? (2 PTS)



- a. 1
b. 2
c. 3
d. 4



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