

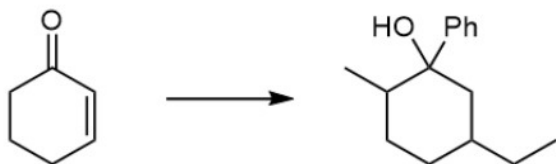
CHM 3150 Organic Chemistry II  
Dr. Laurie S. Starkey, Cal Poly Pomona  
Chapter 21, Enols & Enolates, Part 4 – [Practice Problems](#)

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<https://pollev.com/lauriestarke263>



Which of the following lists the reagents required for the given transformation in the correct order of use?

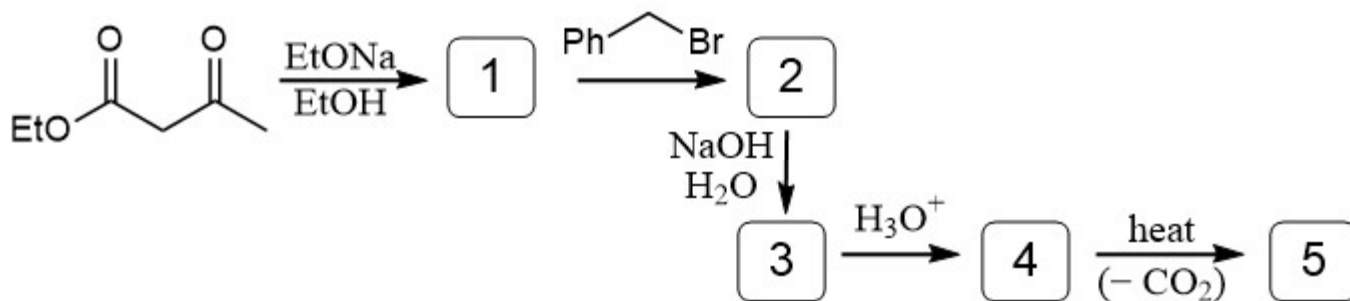
1



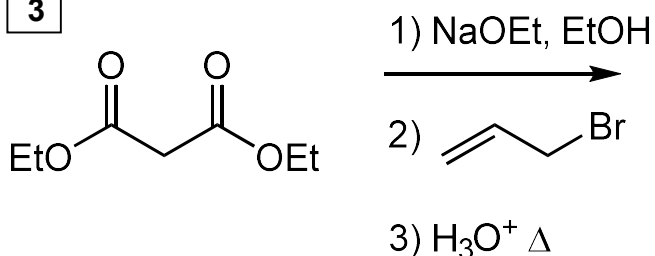
- A)  $\text{Et}_2\text{CuLi}$ ;  $\text{PhMgBr}$ ; LDA;  $\text{MeI}$
- B)  $\text{Et}_2\text{CuLi}$ ;  $\text{MeI}$ ;  $\text{PhMgBr}$
- C) LDA;  $\text{MeI}$ ;  $\text{Et}_2\text{CuLi}$ ;  $\text{PhMgBr}$
- D)  $\text{PhMgBr}$ ;  $\text{Me}_2\text{CuLi}$ ;  $\text{Et}_2\text{CuLi}$
- E)  $\text{Et}_2\text{CuLi}$ ; LDA;  $\text{MeI}$ ;  $\text{PhMgBr}$

2

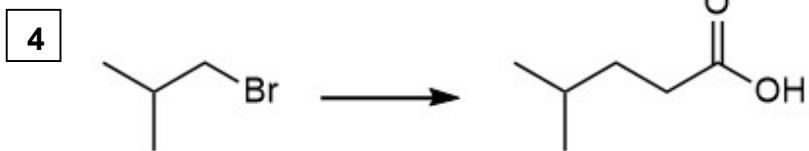
Predict the major products 1-5.



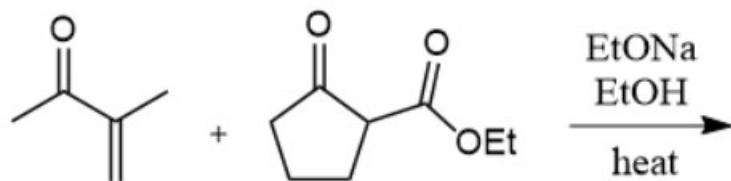
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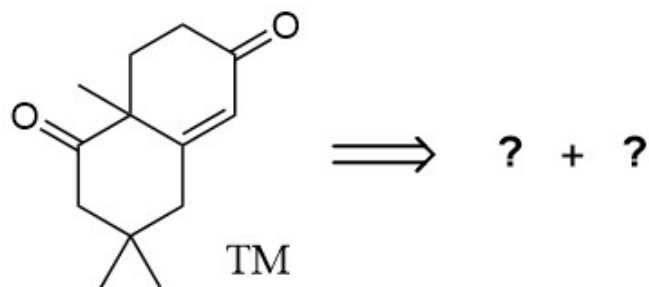
Provide the necessary reagents.



5 Predict the major Robinson annulation product.

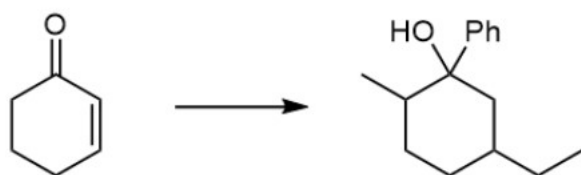


6 Provide the starting materials needed to prepare the given target molecule by a Robinson Annulation.



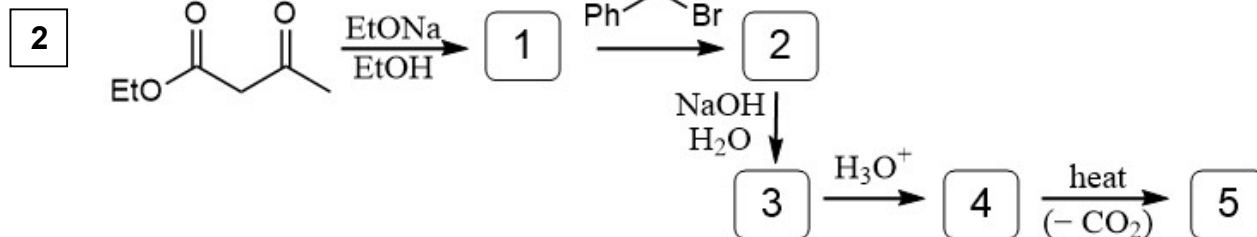
1

Which of the following lists the reagents required for the given transformation in the correct order of use?

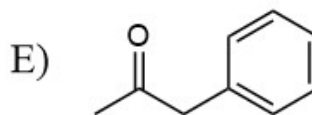
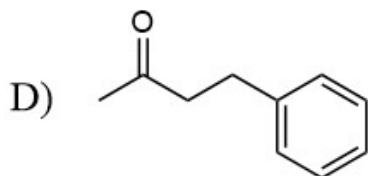
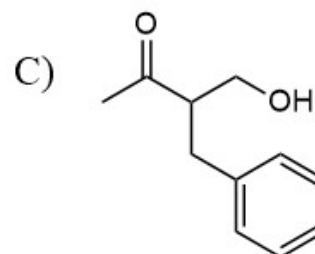
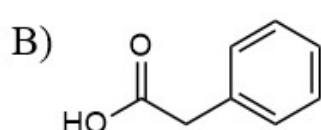
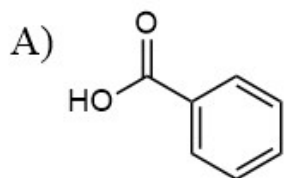


- A)  $\text{Et}_2\text{CuLi}$ ;  $\text{PhMgBr}$ ; LDA;  $\text{MeI}$   
 B)  $\text{Et}_2\text{CuLi}$ ;  $\text{MeI}$ ;  $\text{PhMgBr}$   
 C) LDA;  $\text{MeI}$ ;  $\text{Et}_2\text{CuLi}$ ;  $\text{PhMgBr}$   
 D)  $\text{PhMgBr}$ ;  $\text{Me}_2\text{CuLi}$ ;  $\text{Et}_2\text{CuLi}$   
 E)  $\text{Et}_2\text{CuLi}$ ; LDA;  $\text{MeI}$ ;  $\text{PhMgBr}$

Predict the major products 1-5.



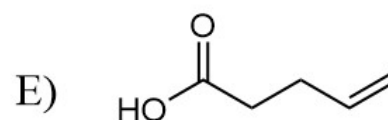
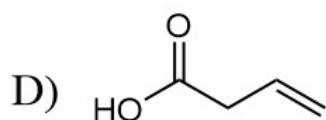
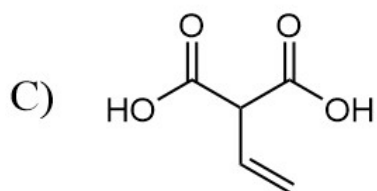
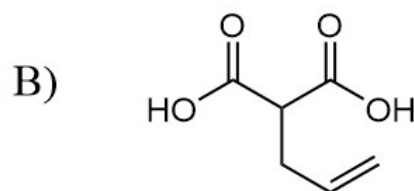
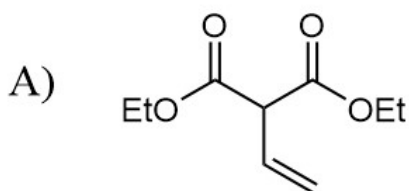
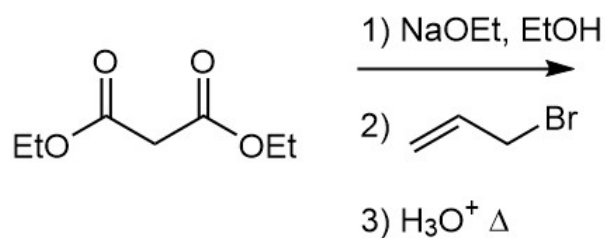
Which of the following is the final product (5)?



Predict the major product.

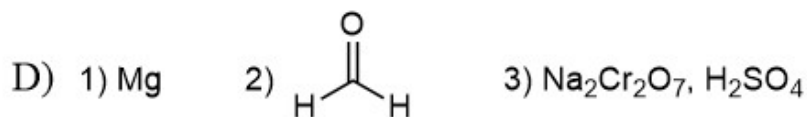
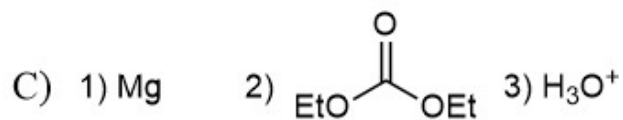
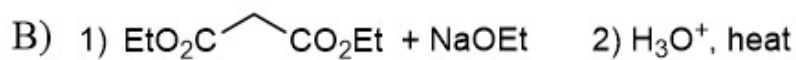
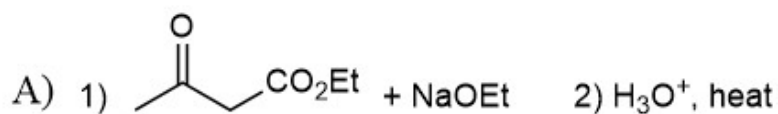
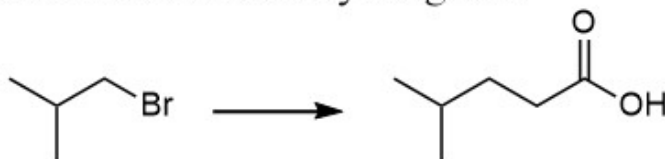
SkillBuilder 21.6

3

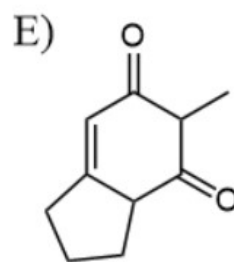
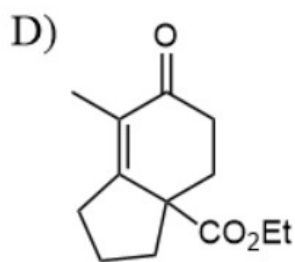
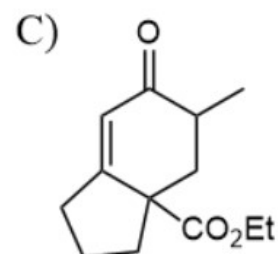
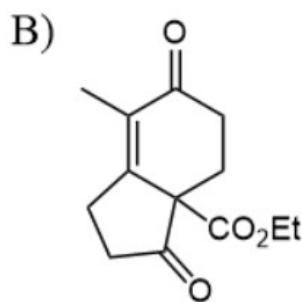
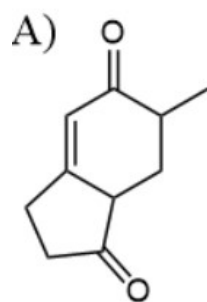
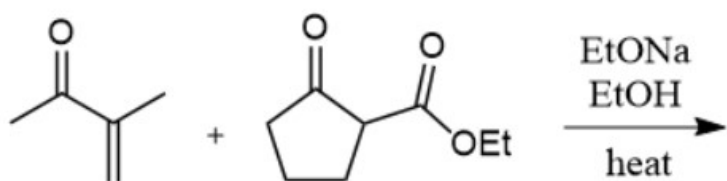


Provide the necessary reagents.

4



5 Predict the major Robinson annulation product.



6 Provide the starting materials needed to prepare the given target molecule by a Robinson Annulation.

