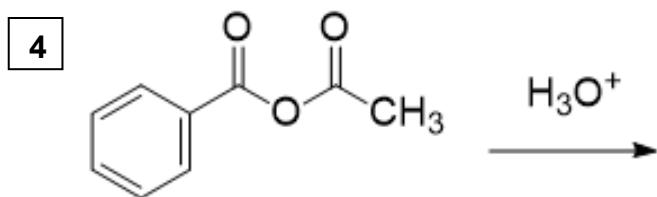
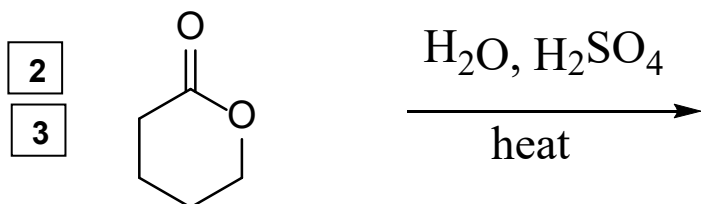
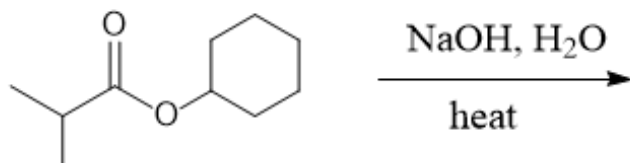




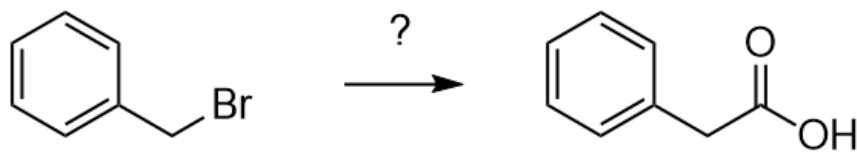
Chapter 20 Carboxylic Acids & Derivatives Part 2 – [Practice Problems](#)

1 Predict the major product and draw the mechanism.



5

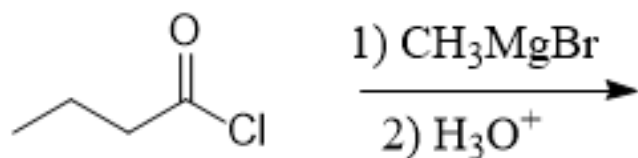
Which of the following sets of reagents would accomplish the given transformation?



- I. 1) Mg; 2) CO₂; 3) H₃O⁺
- II. 1) NaCN; 2) H₃O⁺, heat
- III. 1) Mg; 2) H₂C=O
3) H₃O⁺; 4) CrO₃, H₂SO₄

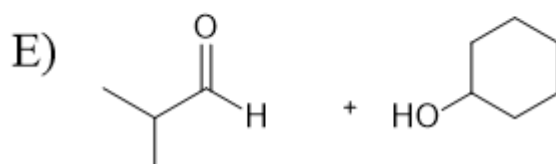
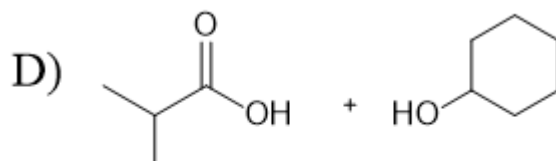
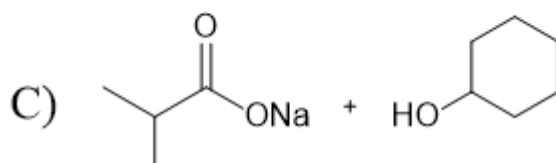
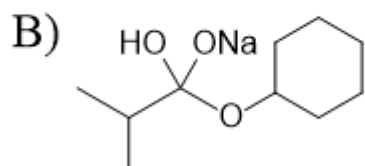
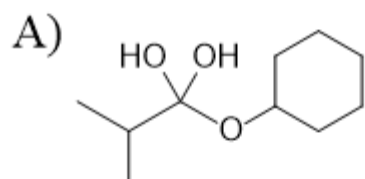
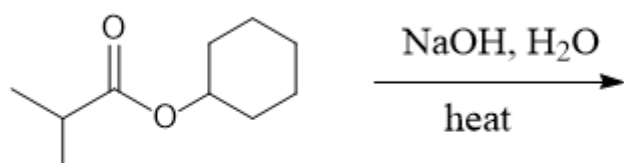
6

Predict the major product.



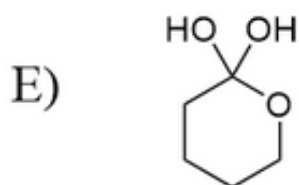
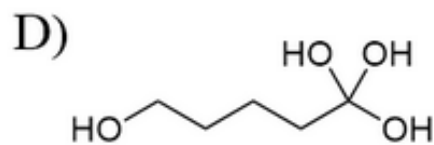
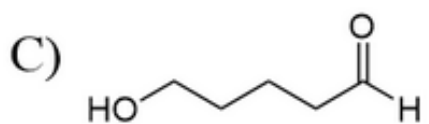
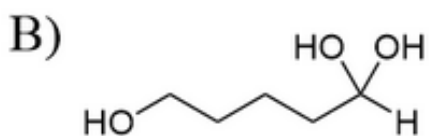
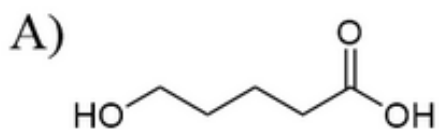
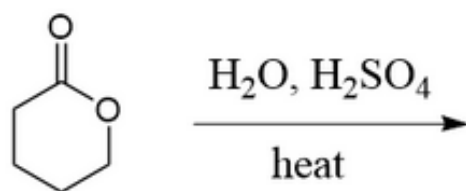
Predict the major product(s).

1



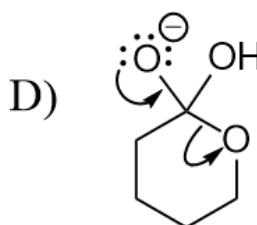
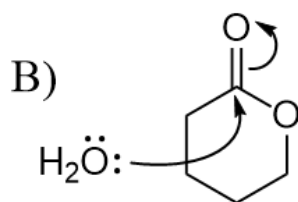
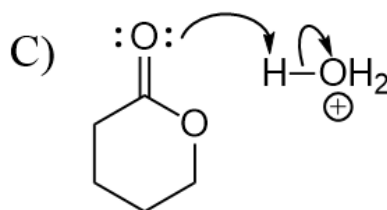
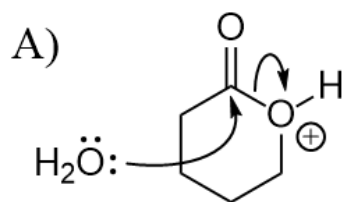
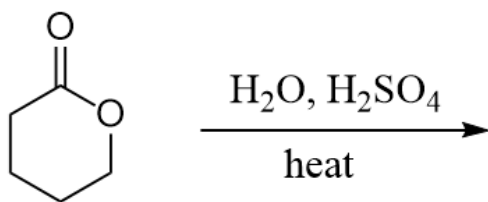
2

Predict the major product.



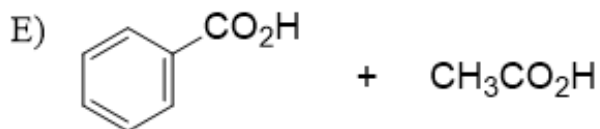
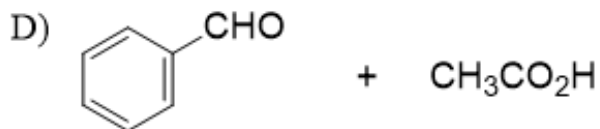
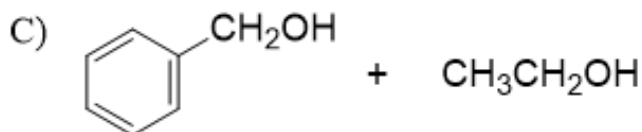
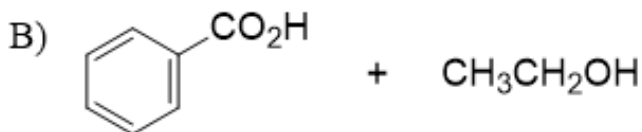
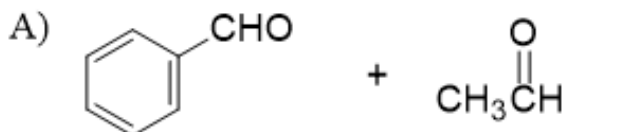
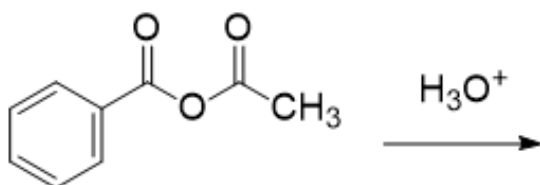
3

Which of the following is a likely step in the mechanism of the given reaction?



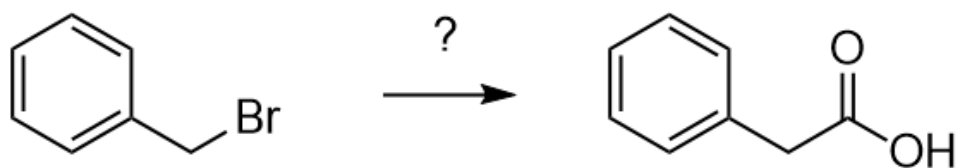
Which of the following are the major products of the reaction shown?*

4



*Chemistry GRE
Practice test

5 Which of the following sets of reagents would accomplish the given transformation?



I. 1) Mg; 2) CO_2 ; 3) H_3O^+

II. 1) NaCN; 2) H_3O^+ , heat

III. 1) Mg; 2) $\text{H}_2\text{C}=\text{O}$
3) H_3O^+ ; 4) CrO_3 , H_2SO_4

A) I and II only

B) II and III only

C) I and III only

D) I, II and III

6 Predict the major product.

