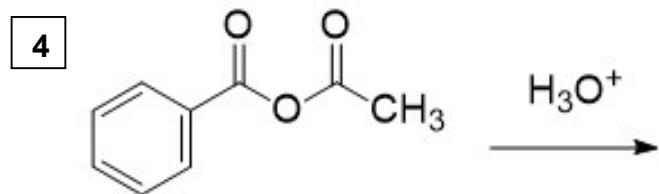
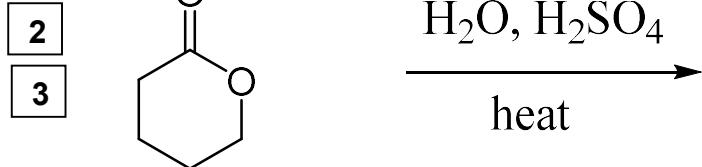
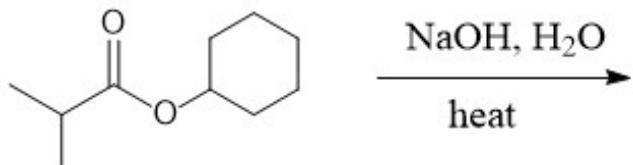


**CHM 3150 Organic Chemistry II**  
**Dr. Laurie S. Starkey, Cal Poly Pomona**  
**Chapter 20 Carboxylic Acids & Derivatives Part 2 – Practice Problems**

For clicker question voting, go to:  
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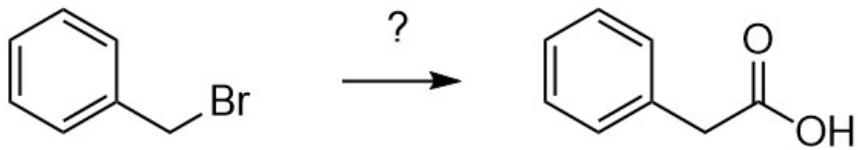


**1** Predict the major product and draw the mechanism.



5

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



- I. 1) Mg; 2) CO<sub>2</sub>; 3) H<sub>3</sub>O<sup>+</sup>
- II. 1) NaCN; 2) H<sub>3</sub>O<sup>+</sup>, heat
- III. 1) Mg; 2) H<sub>2</sub>C=O  
3) H<sub>3</sub>O<sup>+</sup>; 4) CrO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub>

6

Predict the major product.

