



# Chem 341 • Organic Chemistry I

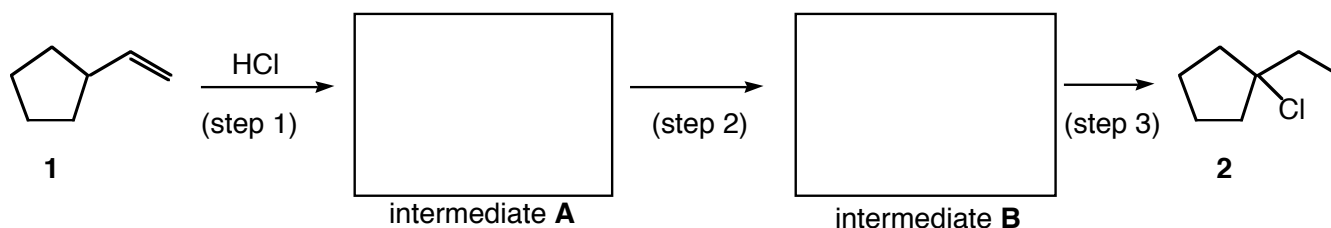
## Suggested Problems • Chapter 06

### Problems from your text

6.3, 6.4, 6.5, 6.7, 6.10, 6.11, 6.14, 6.16, 6.18, 6.19, 6.24, 6.26, 6.29, 6.35, 6.39, 6.41, 6.42, 6.44, 6.49, 6.53

### Additional Practice Problems

1. a) In the following reaction of the addition of HCl to vinylcyclopentane (**1**), one of the major products formed is 1-chloro-1-ethylcyclopentane (**2**). The mechanism for this reaction involves the formation of intermediate **A** which is converted into intermediate **B** and finally the product **2** is formed. In the boxes below, draw the structures of the intermediates showing any charges that are present.



- b) The following diagram describes the reaction above. On the diagram, label the position of each compound in the reaction including the starting material **1**, the product **2**, and intermediates **A** and **B**. In addition, graphically show  $\Delta G^\circ$  and  $\Delta G^\ddagger$  for this reaction on the diagram using an arrow.

