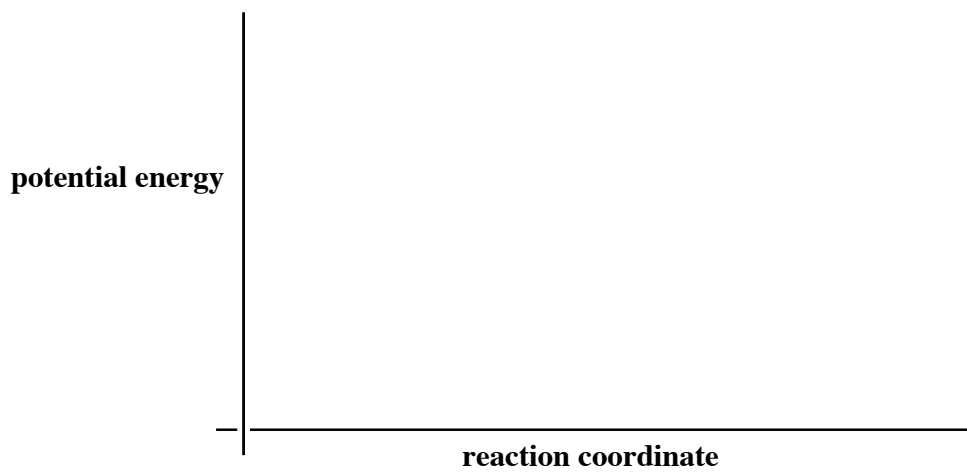
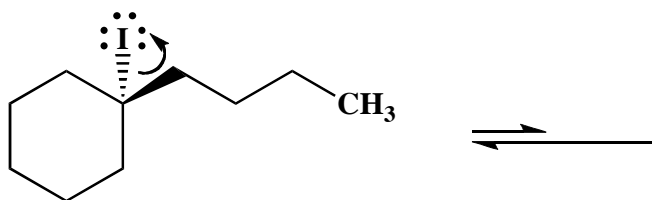


## Quiz #2

1. (10 points)

Draw the intermediate that is formed in the following primary mechanistic step. Then use the Hammond postulate to characterize the transition state for this step in terms of timing, energetics, and structure. Explain your reasoning clearly. Draw an annotated reaction- energy diagram (graph of potential energy versus reaction coordinate) to illustrate your answer.



2. (10 points)

State whether the following reaction is non-enantioselective, partially enantioselective, completely enantioselective, non-diastereoselective, partially diastereoselective, or completely diastereoselective. Describe your reasoning clearly and succinctly. If the reaction is stereoselective, state the numerical value of the e.e. or d.e., as appropriate.

