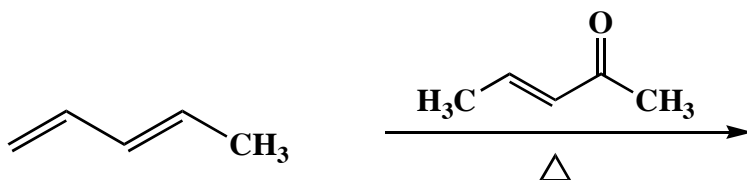


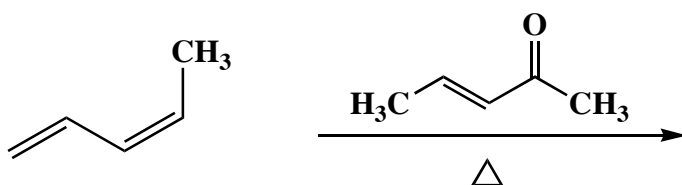
Problem Set 4

1. Draw the structure of the expected major organic product for each of the following five questions. Specify stereochemistry clearly, if relevant.

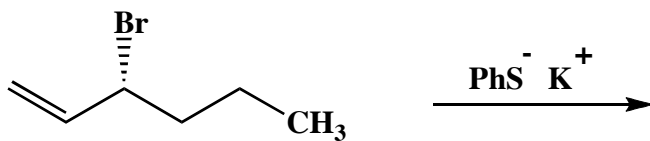
A.



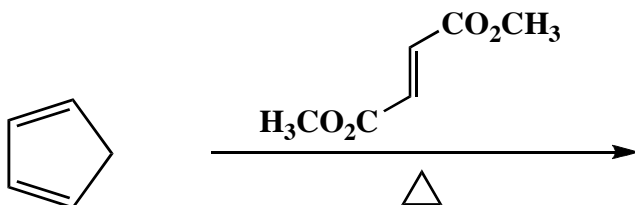
B.



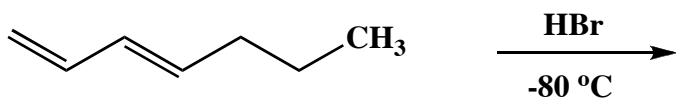
C.



D.

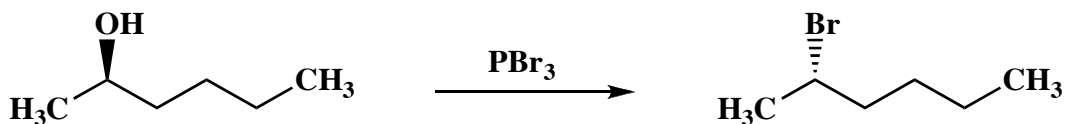


E.

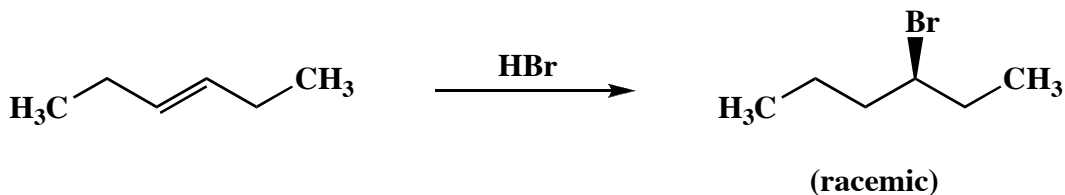


2. State whether each of the following four reactions is nonregioselective, partially regioselective, completely regioselective, nonstereoselective, partially stereoselective, and/or completely stereoselective. If a reaction is stereoselective, state whether it is enantioselective or diastereoselective. If a reaction is nonstereoselective, state whether it is nonenantioselective or nondiastereoselective. Consider all possible regioisomers and/or stereoisomers to describe your reasoning clearly and succinctly.

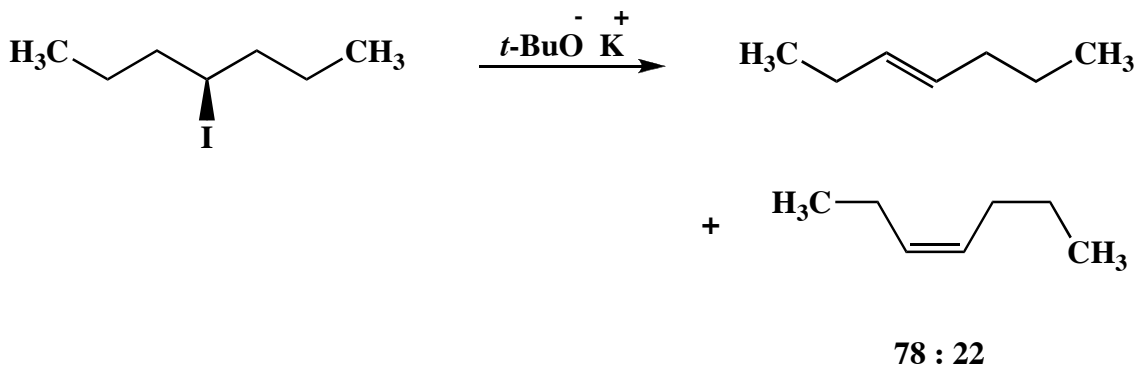
A.



B.



C.



D.

