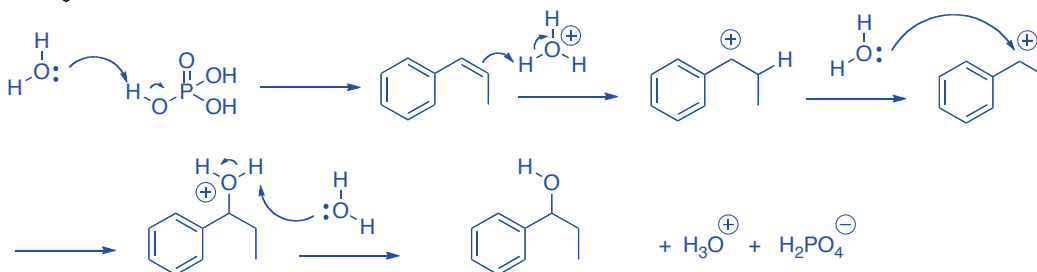
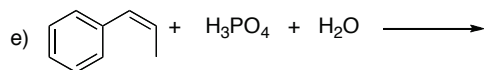
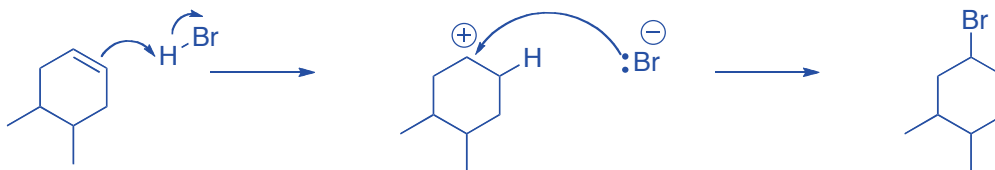
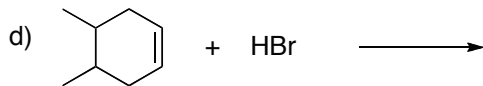
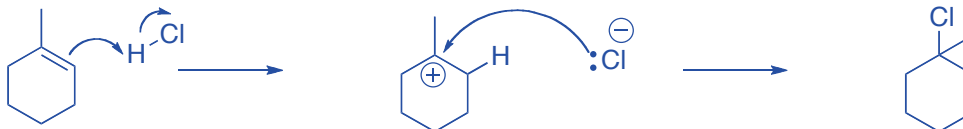
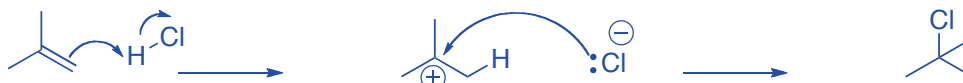
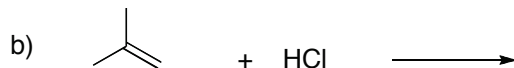


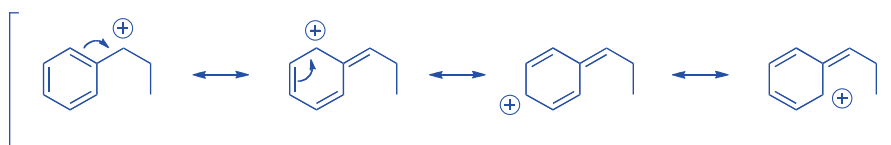
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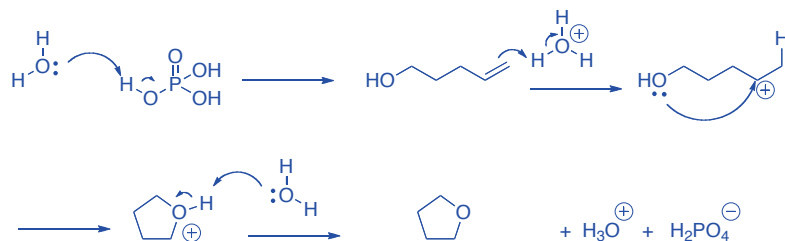
Assignment 8 Answers

1) Predict the major product(s) of the following reactions and give a mechanism to account for its formation.

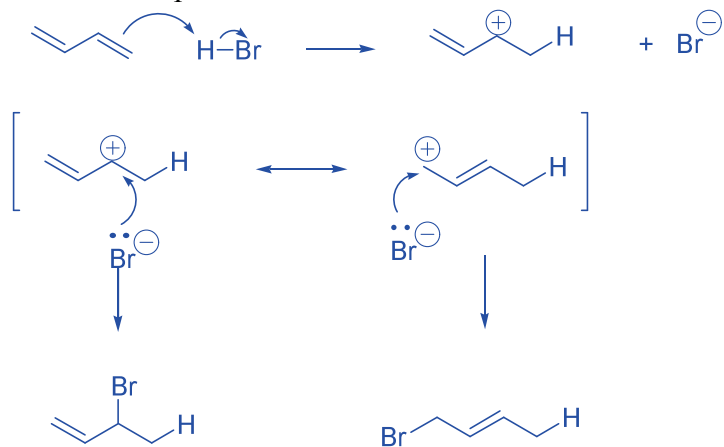


regiochemistry is due to resonance

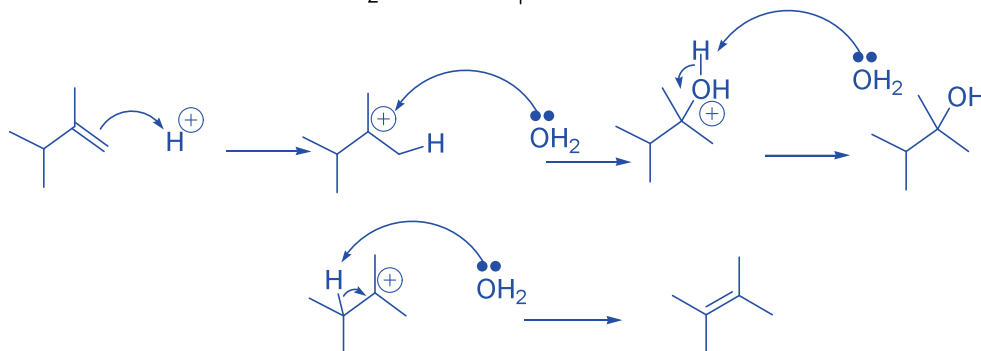
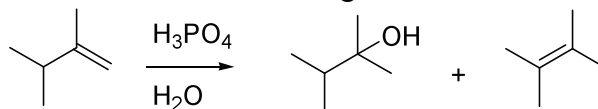




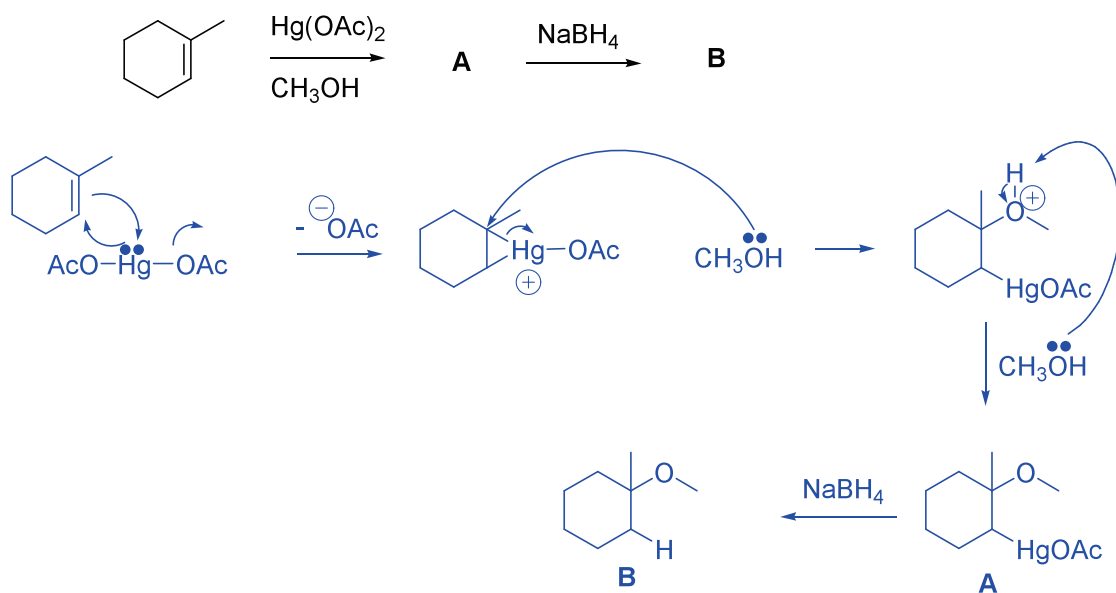
- 2) When 1, 3-butadiene reacts with HBr, a mixture of 3-bromo-1-butene and 1-bromo-2-butene is obtained. Propose a mechanism to account for this observation.



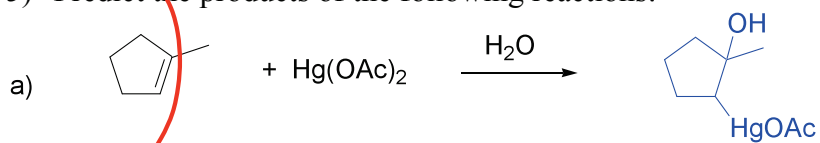
- 3) Propose a mechanism to account for the following:



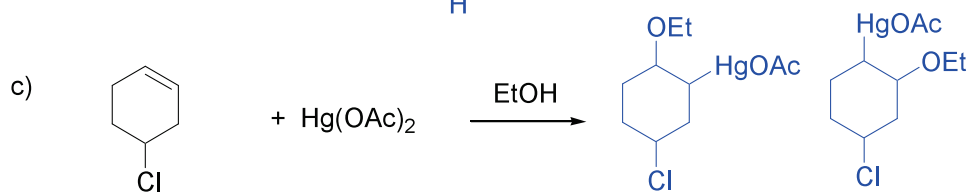
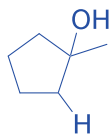
- 4) Predict the structures of products A and B in the following and give a mechanism to justify the formation of A.



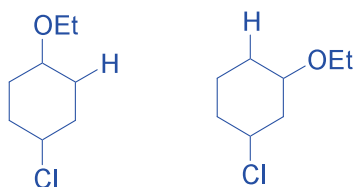
5) Predict the products of the following reactions:



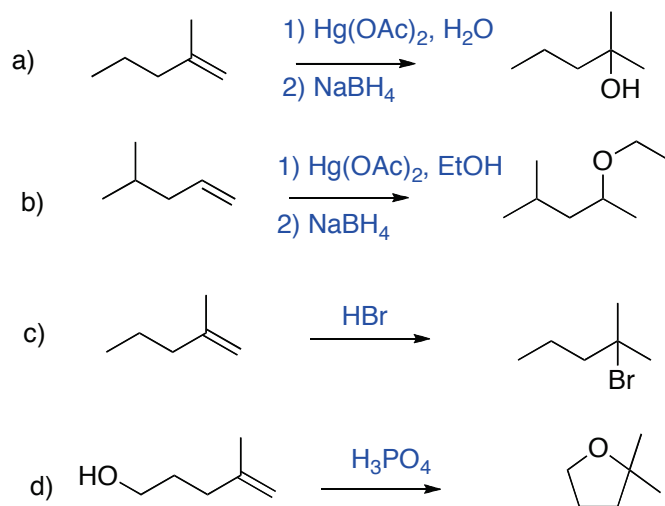
b) the product from part (a) after treatment with NaBH_4



b) the product from part (c) after treatment with NaBH_4



6) Show how you could effect the following transformations. Include stereochemistry where appropriate:



Note: for a and b, H_2O and H_3PO_4 would also work. For d using $\text{Hg}(\text{OAc})_2$ and NaBH_4 is also good.