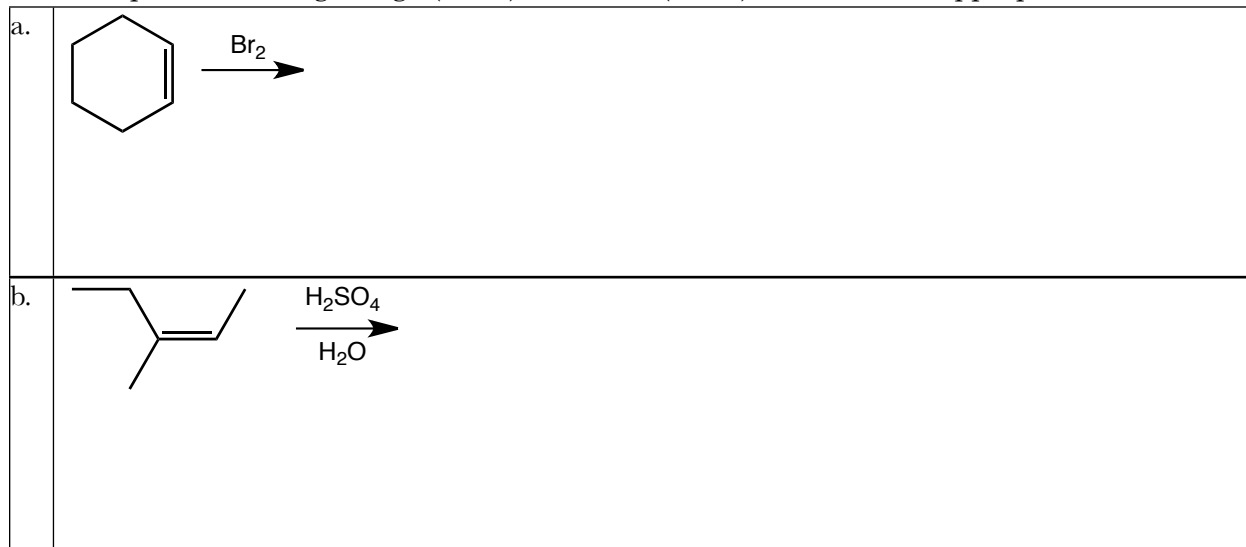
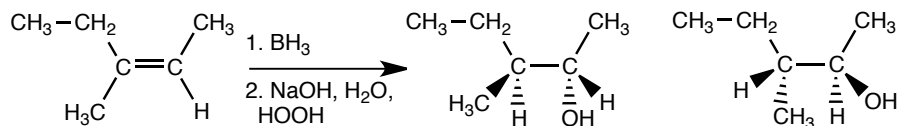


1. (20 pts. ea.) Predict the products for the following reactions. Indicate the stereochemistry of the products using wedge (▲) and dash (⋯) bonds where appropriate.



2. (20 pts.) Explain why only two of the four possible stereoisomers are produced. In your explanation, you should note whether the reaction is proceeding by just a syn addition, and anti addition, or both.



2. (20 pts. ea.) Predict the organic product(s) for the following reactions.

