



Course Name: CHEM 3013: Organic Chemistry Professor/Teacher: Dr. Bolliger

Title of Homework: Homework 3

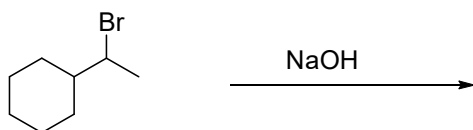
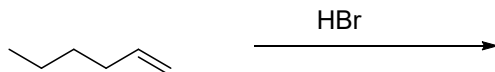
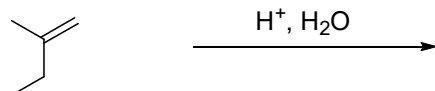
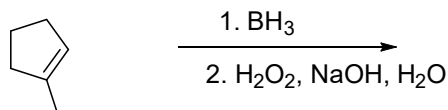
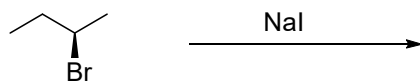
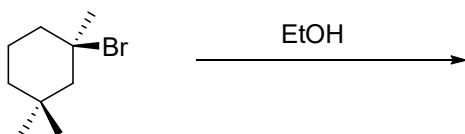
Name: _____ English Name: _____

SWJTU ID: _____ OSU ID: _____ Date: Tuesday, 27 April 2021

Question 1 (3pts)

Complete the following reactions and give all the major product(s).

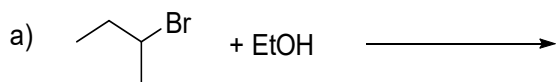
Major Product(s)



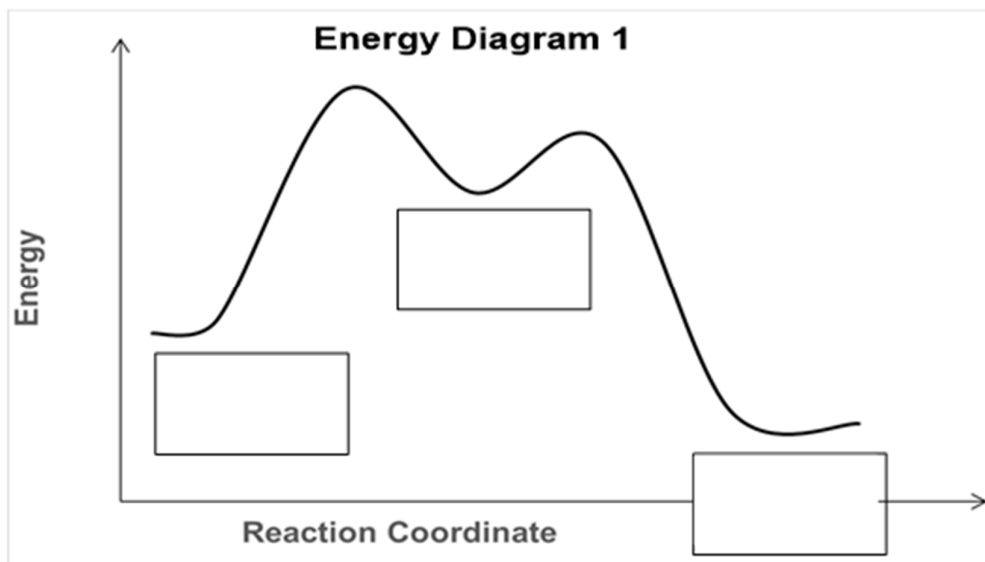


Question 2 (4 pts)

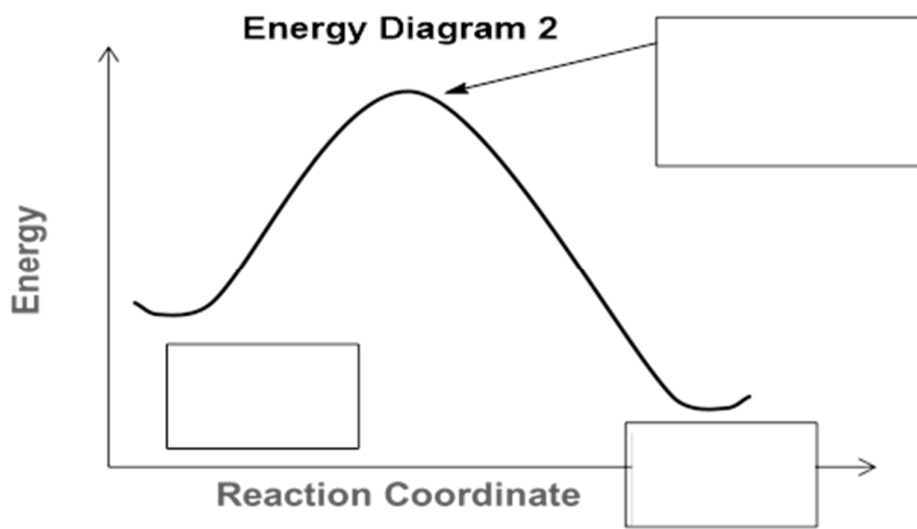
Which substitution reaction a) or b) do energy diagrams 1 and 2 belong to? Complete the diagrams by placing the appropriate structures into the boxes.



Energy diagram 1 shows reaction: _____



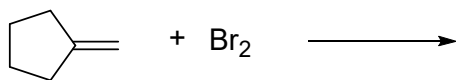
Energy diagram 2 shows reaction: _____





Question 3 (3 pts)

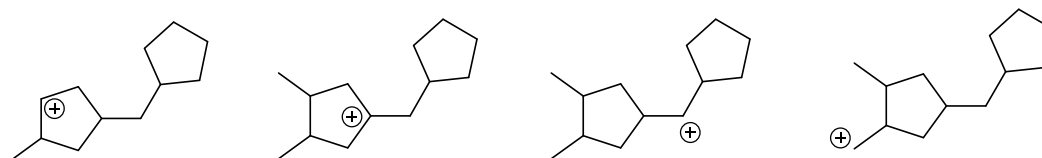
Give the product(s) of this reaction.



Draw the mechanism of the bromination reaction shown above.

Question 4 (1 pt)

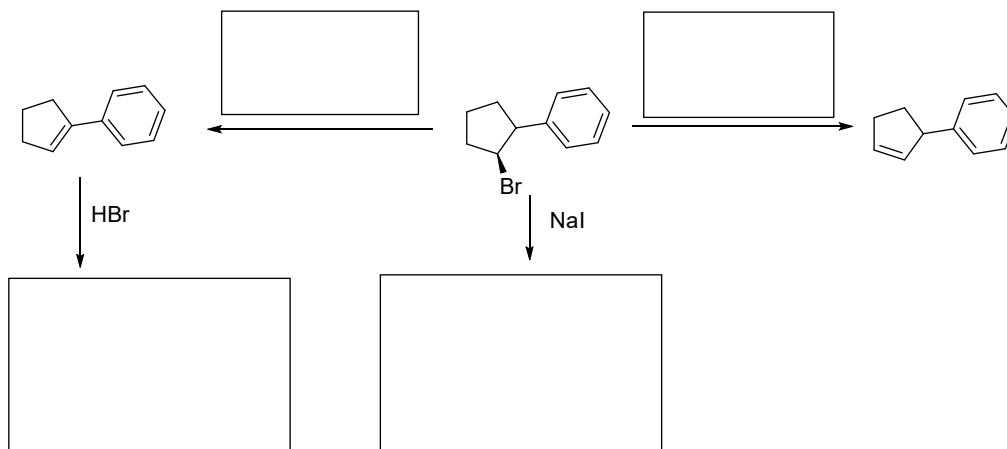
Circle the most stable carbocation.





Question 5 (2 pts)

Complete the following scheme.



Question 6 (2 pts)

Complete the following scheme.

