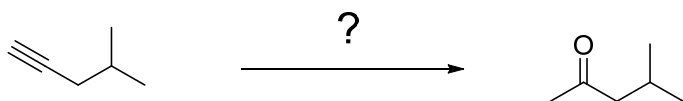
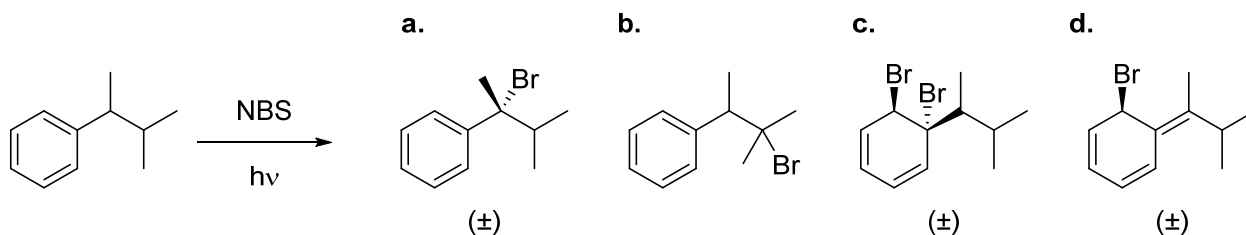


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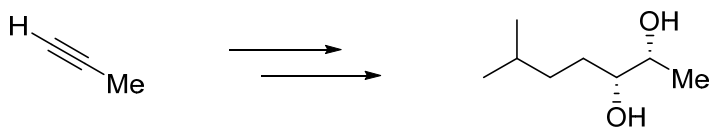
1. Circle the reagents required for the given reaction. (1 point)

a. $\text{HgSO}_4, \text{H}_2\text{SO}_4$
 H_2O c. conc. H_2SO_4 b. 1. 9-BBN
2. $\text{NaOH}, \text{H}_2\text{O}_2$ d. 1. O_3
2. DMS

2. Circle the major product for the following reaction. (1 point)



3. Provide a synthesis for the following transformation. (3 points)



4. a. Draw mechanisms to account for the formation of both products in the following reaction.
-
- b. Label each step as initiation (I), propagation (P) or termination (T). (5 points)

