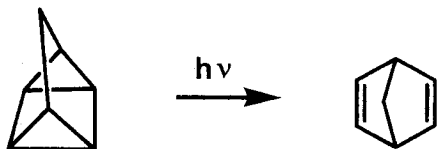


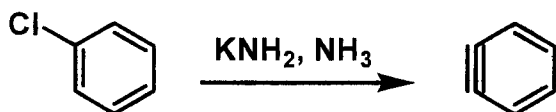
Reactions (Finally)Warm-up Problem:

In the following organic reactions, label each reaction as addition, substitution, elimination, or rearrangement. If there is one, what is the electrophile and what is the nucleophile in each reaction?

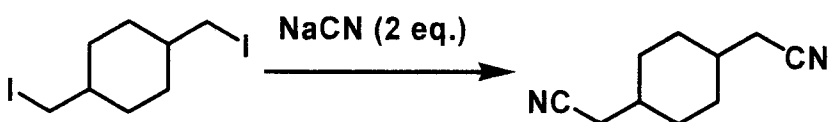
a.



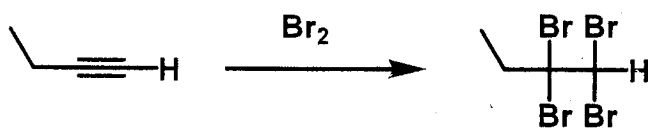
b.



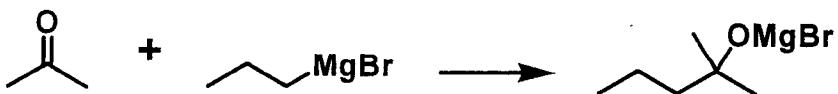
c.



d.

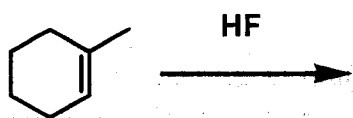


e.

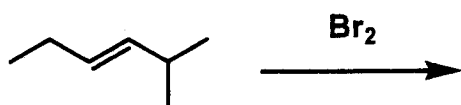


1. Write the products of the following reactions with alkenes:

a.



b.



2. Write the reaction mechanism for the following transformation:

