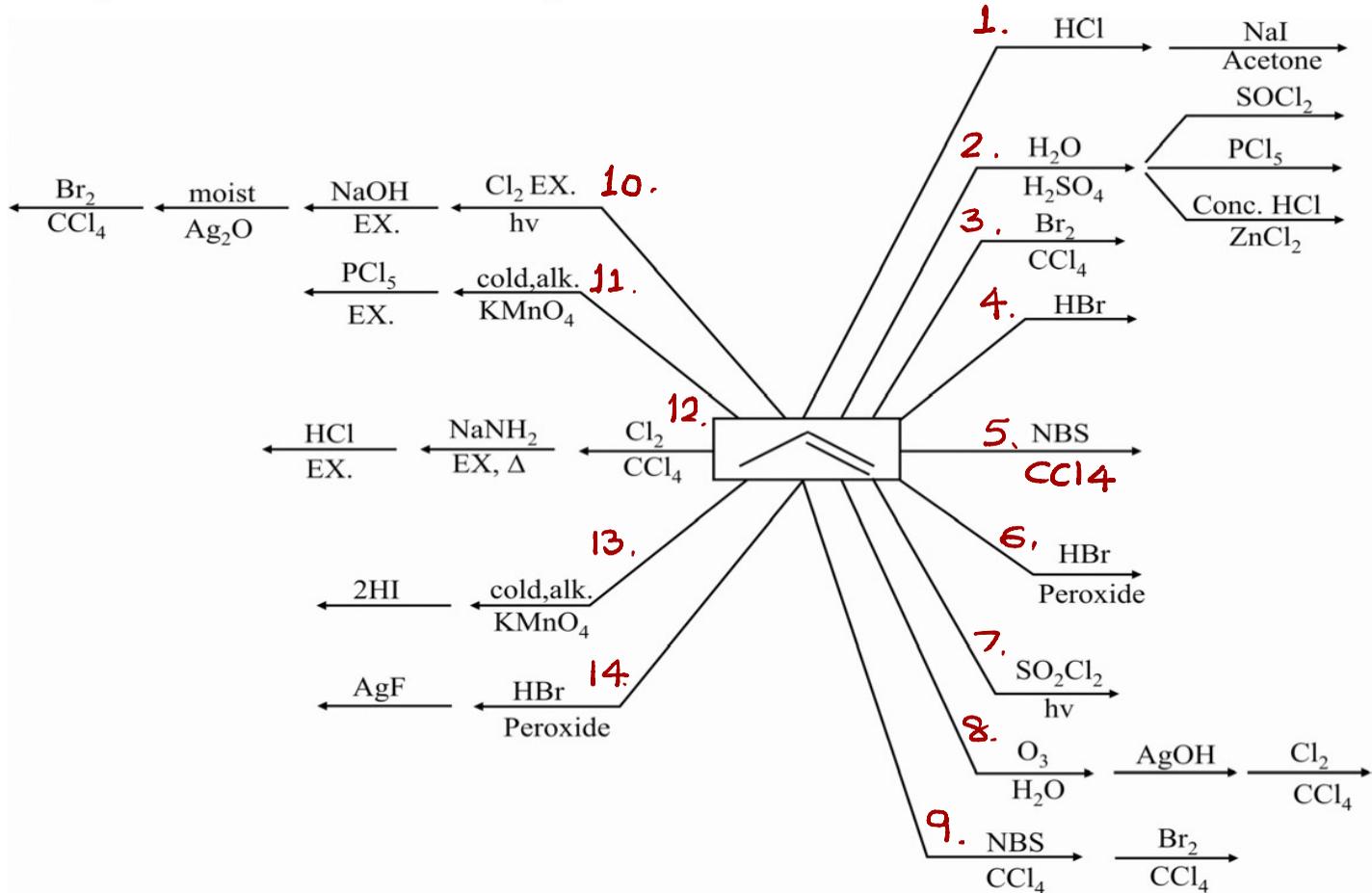
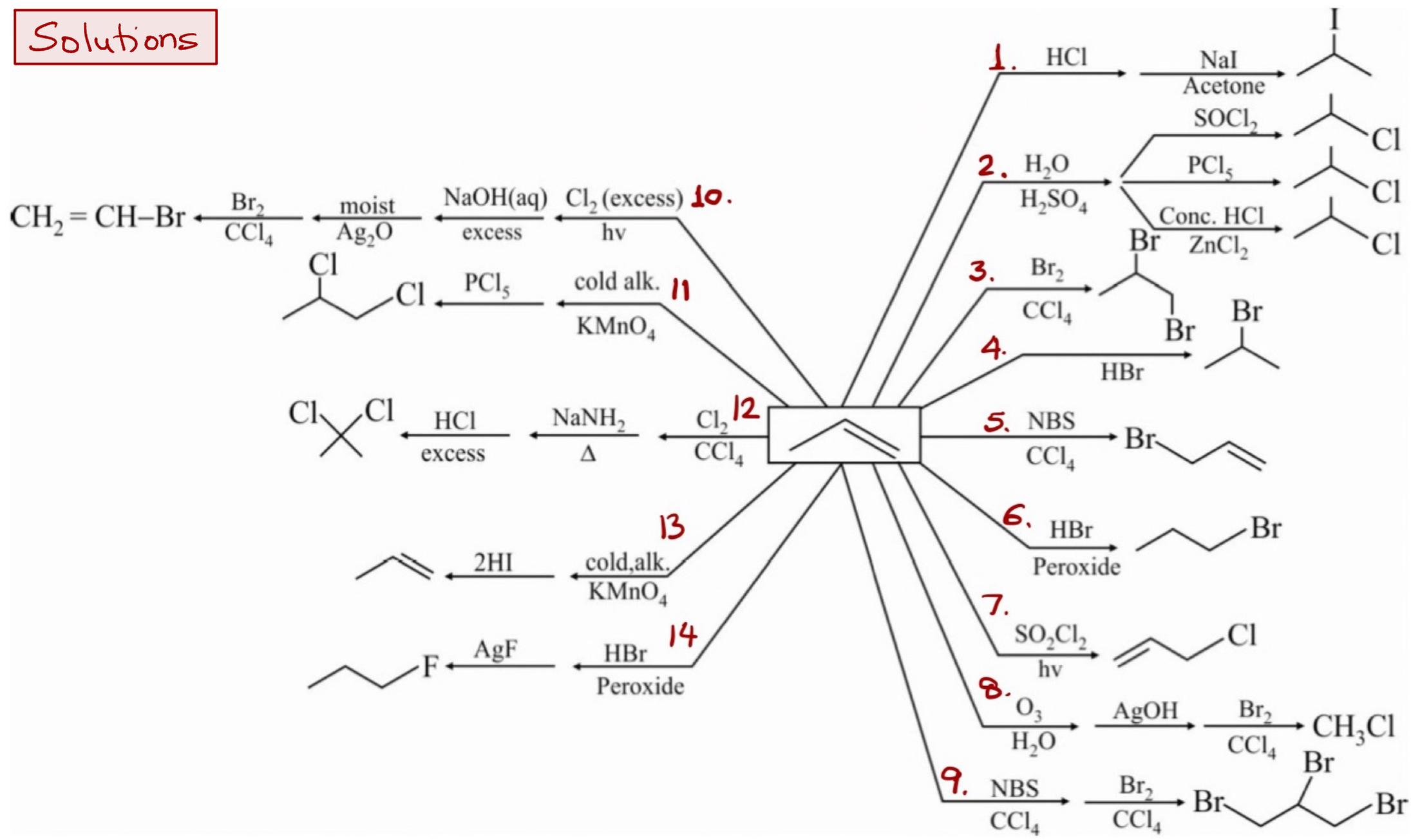


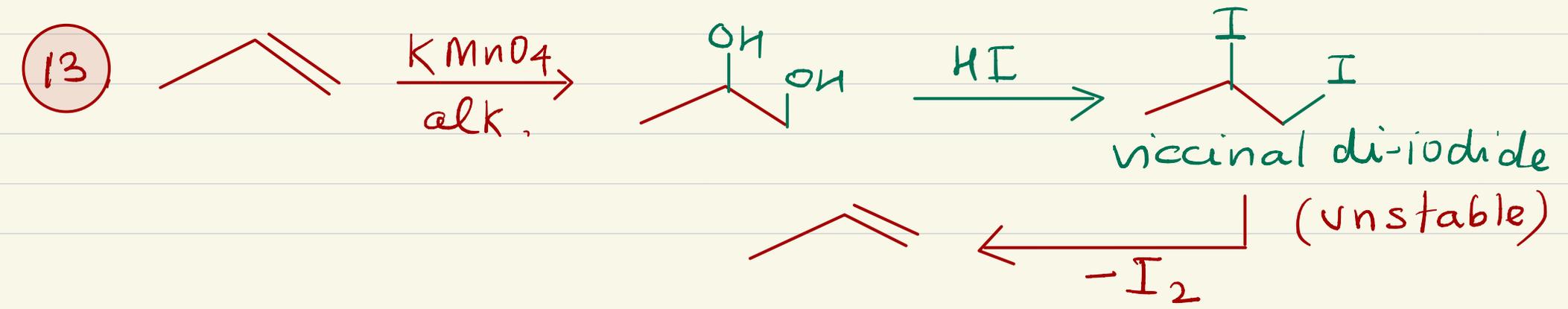
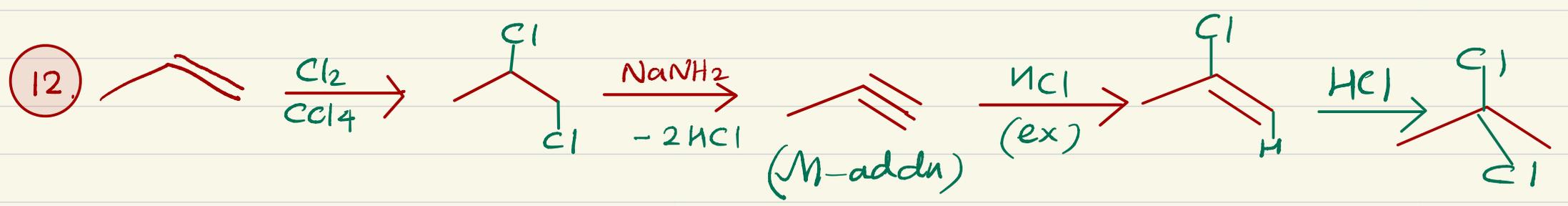
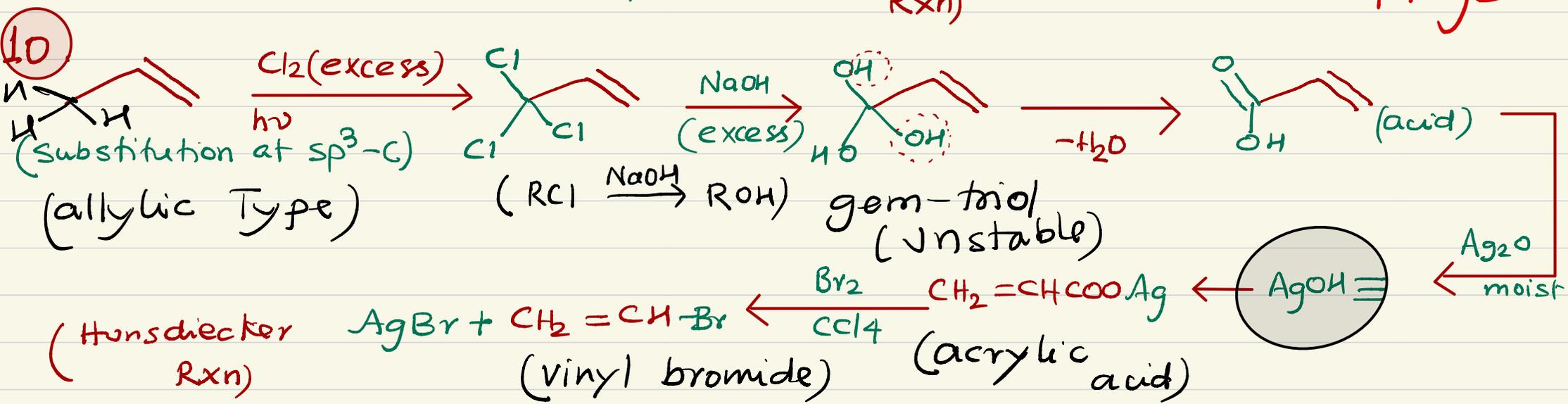
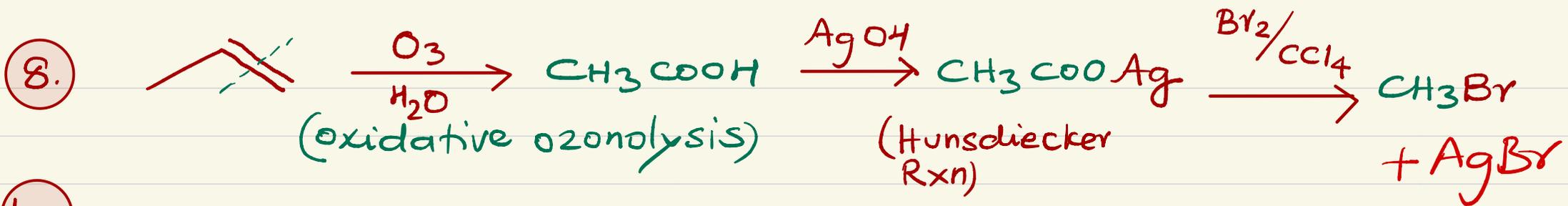
Q1. Identify the Final Product in the following reactions:



Solutions



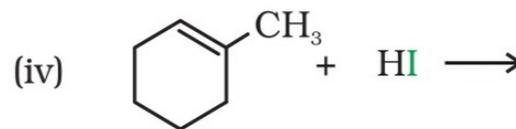
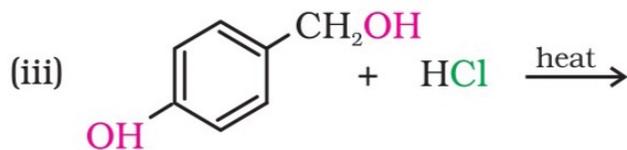
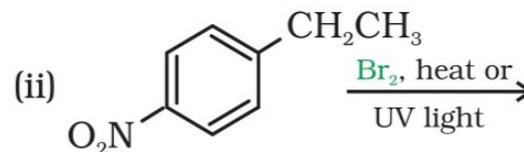
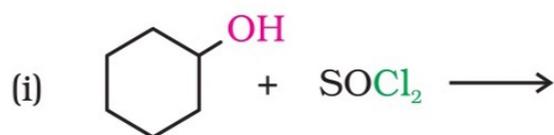
Detailed explanation of some questions
P.T.O. \rightarrow



Questions from NCERT Book. Try yourself.

2. Why is sulphuric acid not used during the reaction of alcohols with KI?
3. Write structures of different dihalogen derivatives of propane.
4. Among the isomeric alkanes of molecular formula C_5H_{12} , identify the one that on photochemical chlorination yields
- (i) A single monochloride.
 - (ii) Three isomeric monochlorides.
 - (iii) Four isomeric monochlorides.
5. Draw the structures of major monohalo products in each of the following reactions:

Solutions
PTO →



6. Which one of the following has the highest dipole moment?

- (i) CH_2Cl_2 (ii) $CHCl_3$ (iii) CCl_4

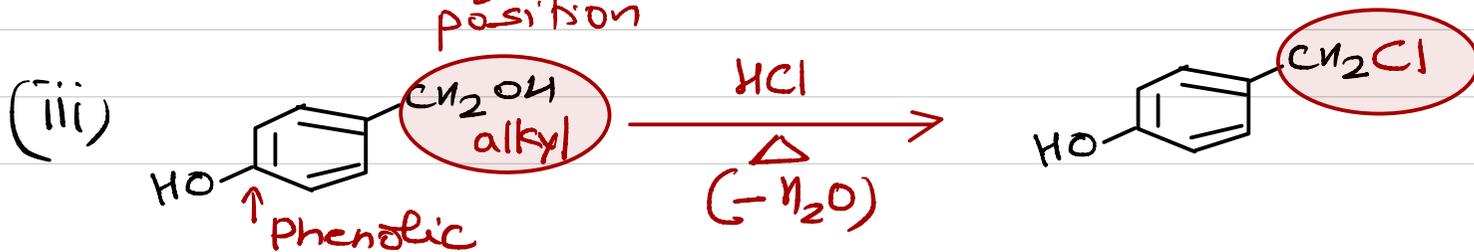
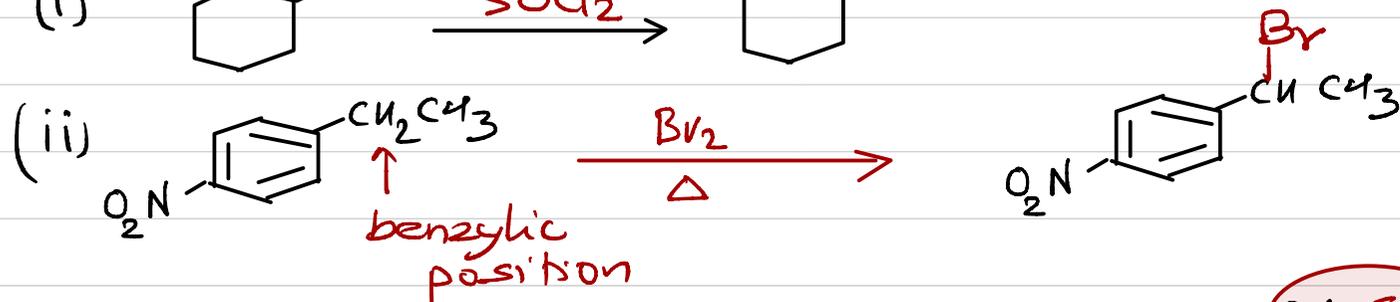
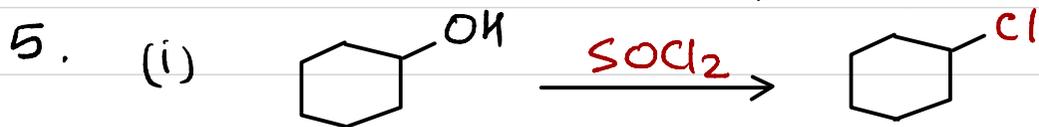
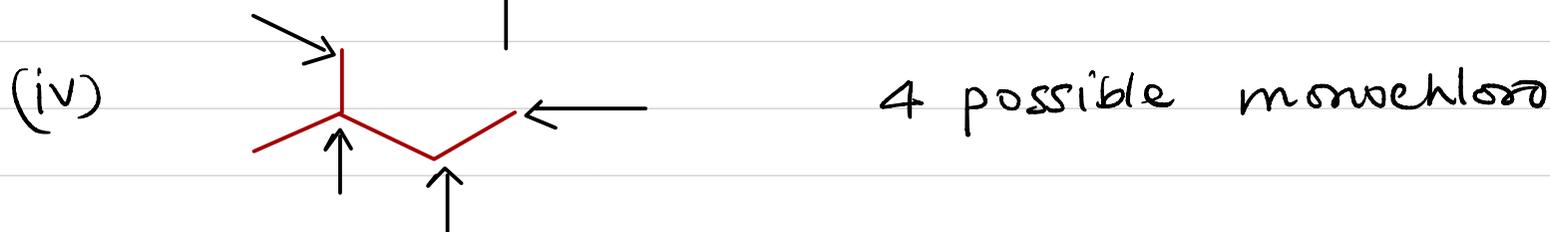
7. A hydrocarbon C_5H_{10} does not react with chlorine in dark but gives a single monochloro compound C_5H_9Cl in bright sunlight. Identify the hydrocarbon.

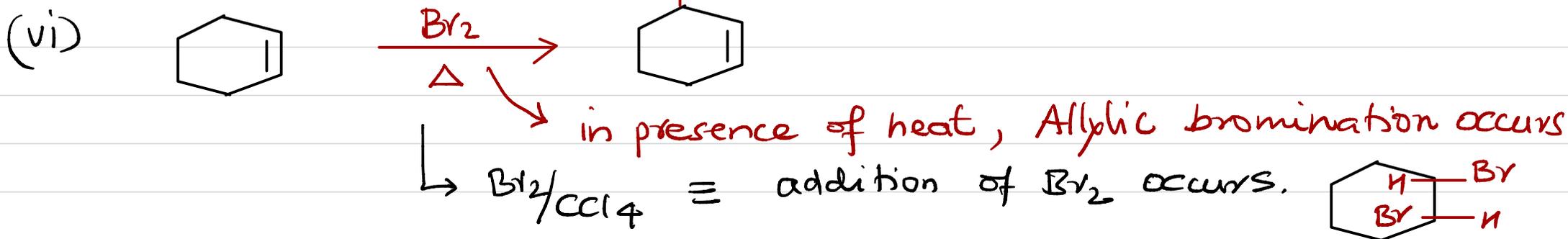
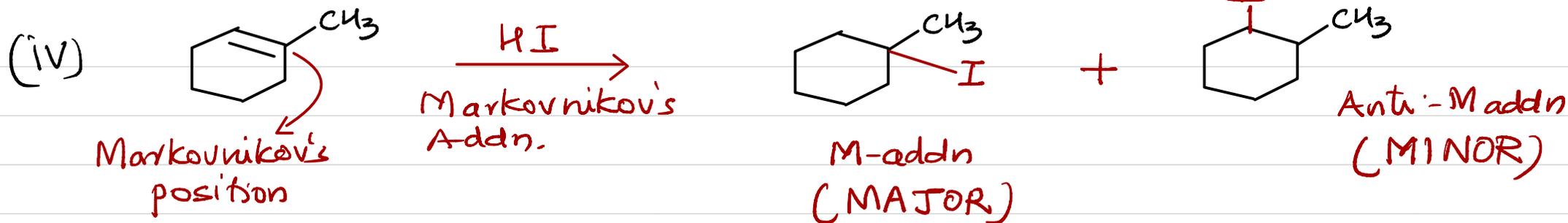
8. Write the isomers of the compound having formula C_4H_9Br .

9. Write the equations for the preparation of 1-iodobutane from

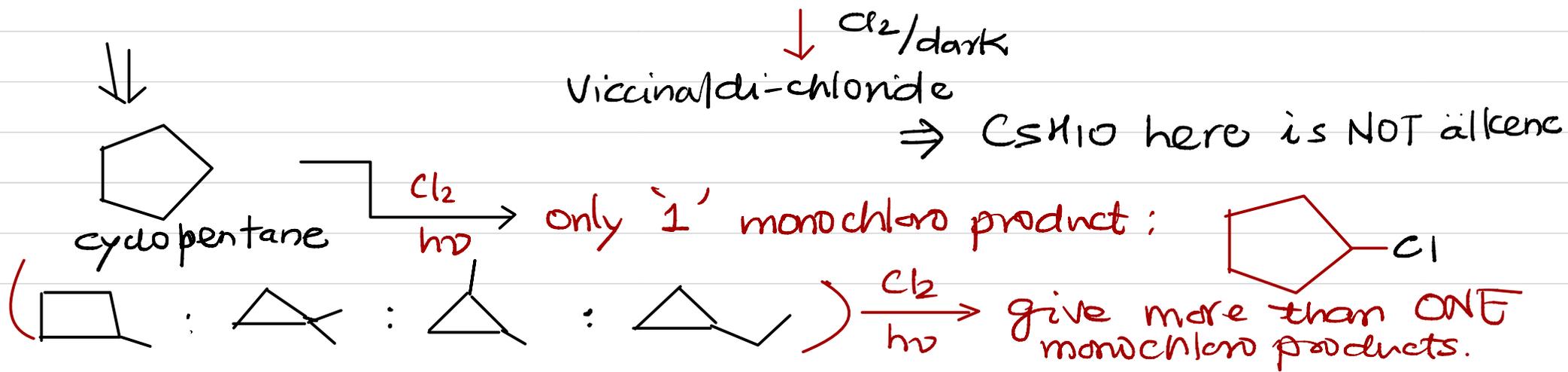
- (i) 1-butanol (ii) 1-chlorobutane (iii) but-1-ene.

2. H_2SO_4 is strongly oxidising, so it will oxidise HI formed into I_2 . Whereas H_3PO_4 does not oxidise HI.

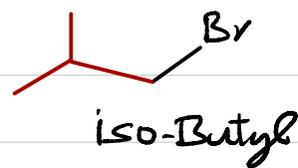
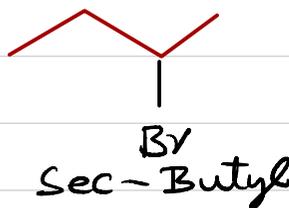
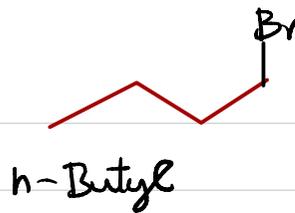




7. $\text{C}_5\text{H}_{10} \equiv \text{C}_n\text{H}_{2n}$: Either alkene or cycloalkane

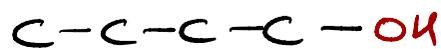


8.

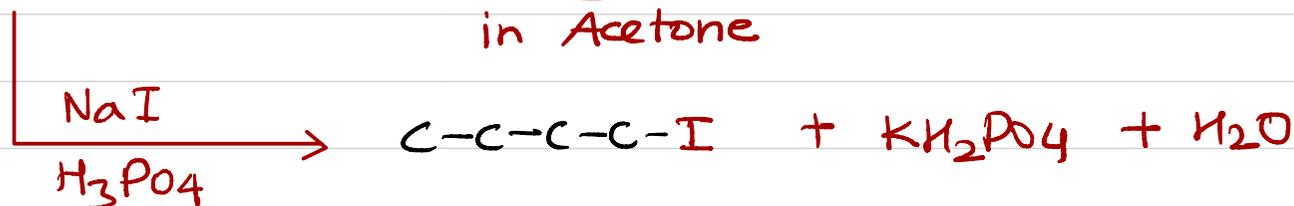
 C_4H_9Br :

9.

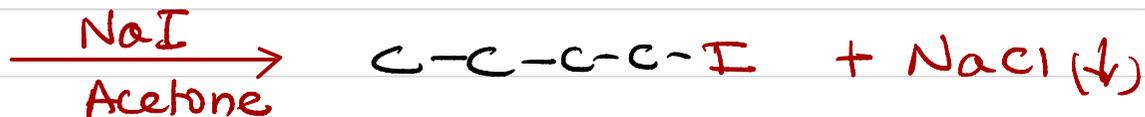
(i)



2. NaI
in Acetone



(ii)



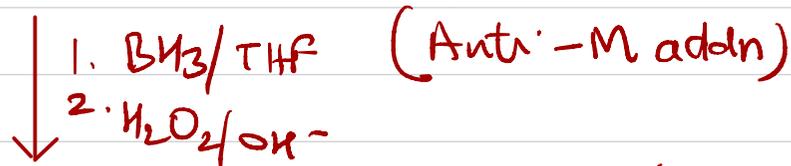
(iii)



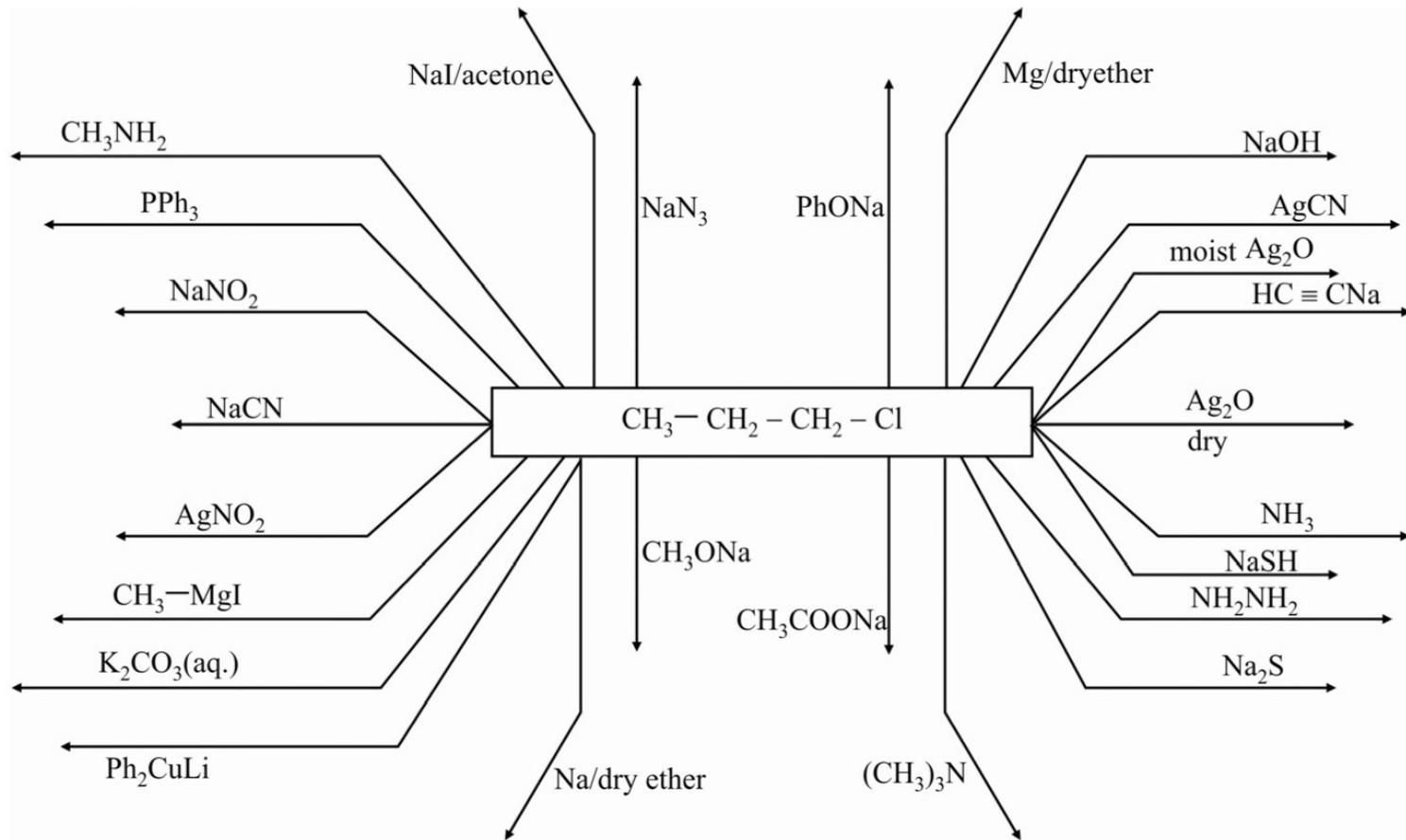
NaI in
Acetone



(Anti-M
addn)



1. Identify the Final Product in the following reactions :



NCERT Questions:

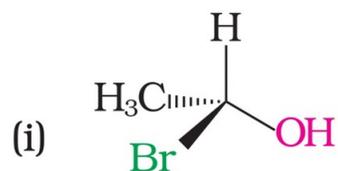
2. Arrange each set of compounds in order of increasing boiling points.

(i) Bromomethane, Bromoform, Chloromethane, Dibromomethane.

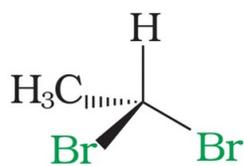
(ii) 1-Chloropropane, Isopropyl chloride, 1-Chlorobutane.

3.

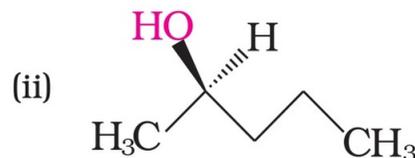
Identify chiral and achiral molecules in each of the following pair of compounds. (Wedge and Dash representations according to Class XI, Fig 12.1).



(i)



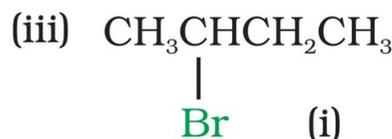
(ii)



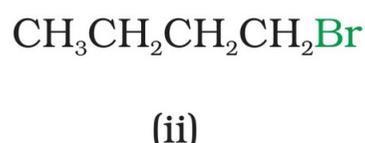
(i)



(ii)



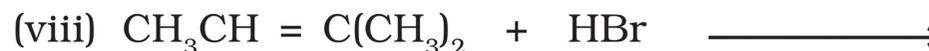
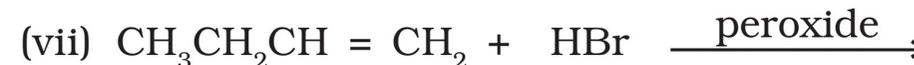
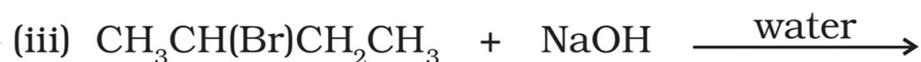
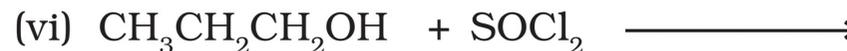
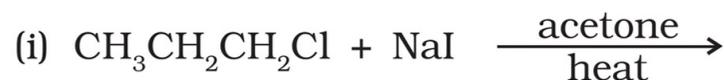
(i)



(ii)

4.

Write the structure of the major organic product in each of the following reactions:

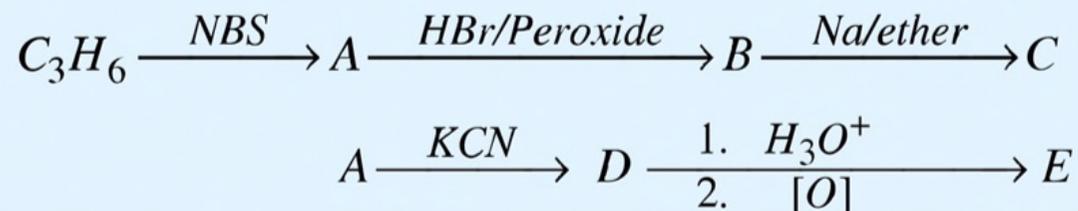


Module Illustrations

5.

Illustration - 1

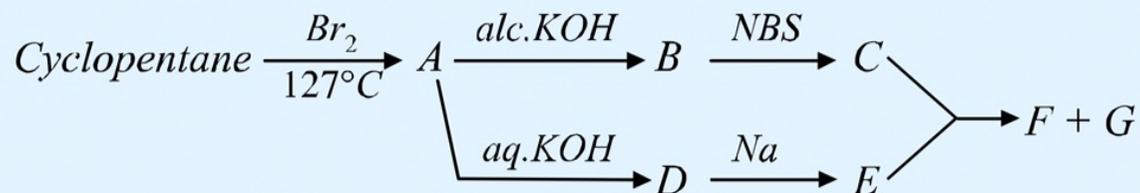
Identify the compounds A, B, in the following reaction setup.



6.

Illustration - 2

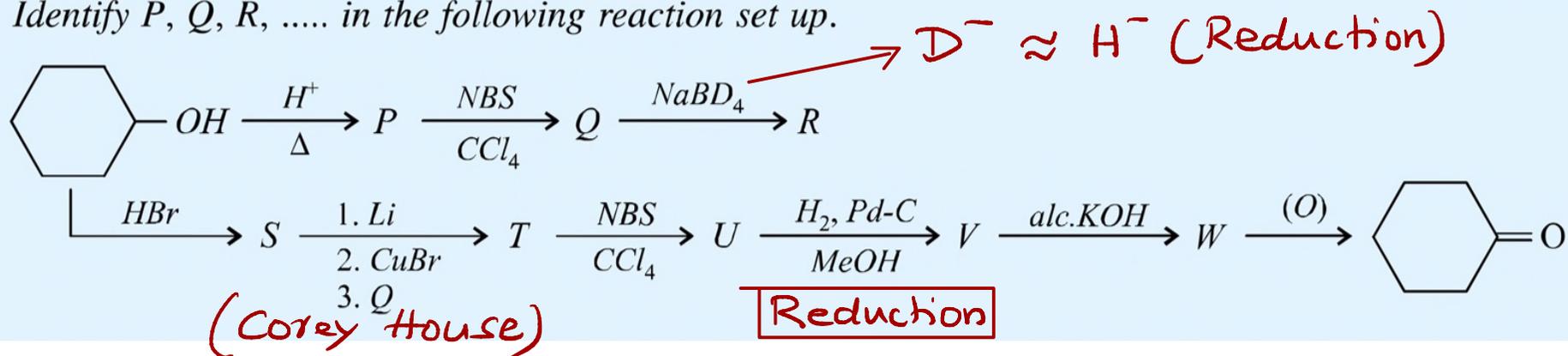
Identify (A) to (G) in the following series of reactions. Also identify the major product among F and G.



7.

Illustration - 3

Identify P, Q, R, in the following reaction set up.



THANK

39 88.906 3338 1.1 1526 Y [Kr]4d5s ² 4.47 3	8 15.999 -182.82 3.5 -222.65 O [He]2s ² 2p ⁴ 1.43 -2	92 238.029 4134 1.2 1132 U [Rn]5f ³ 6d7s ² 19.0 3,4,5,6
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