

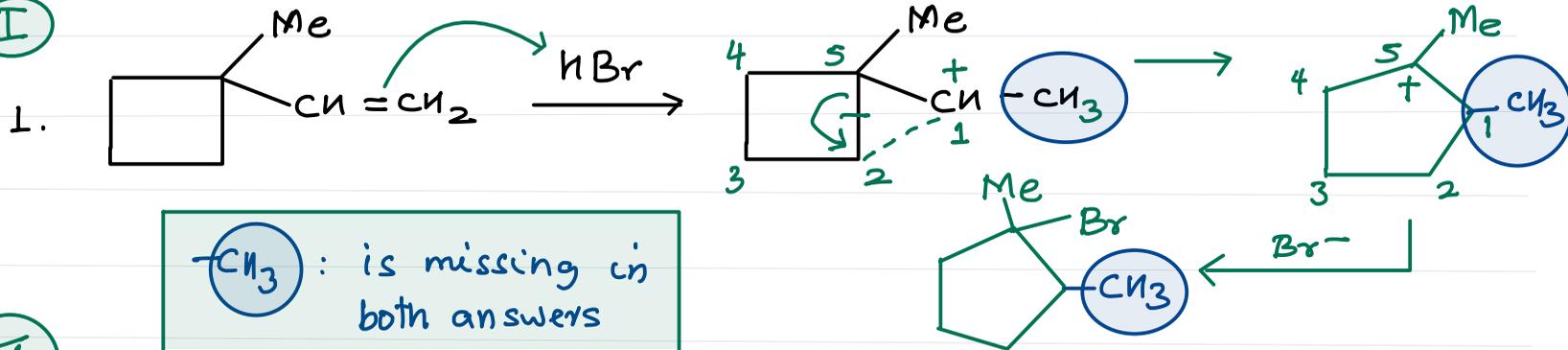
Organic Concepts Homework

Solutions to HomeWork-Sheet-5

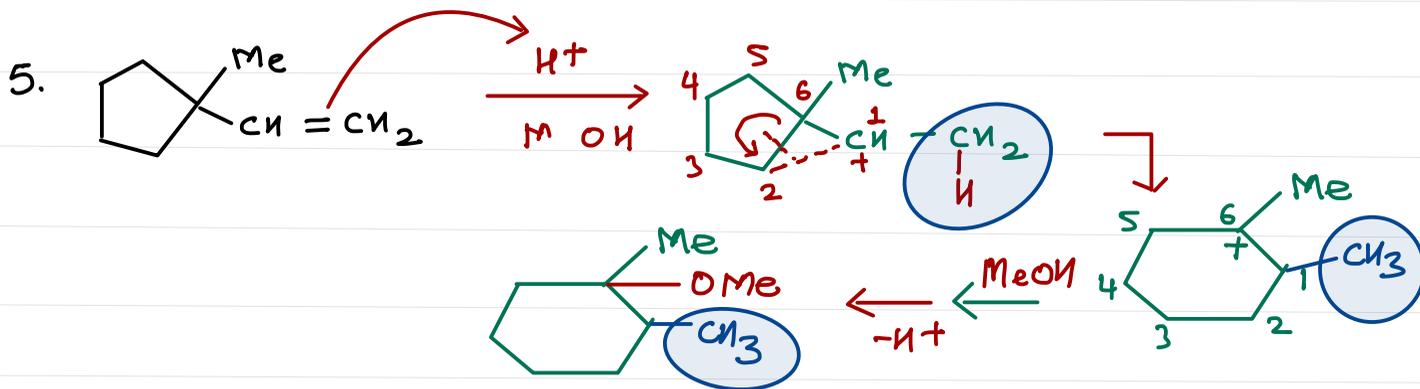
HomeWork-Sheet-6

Errate in HWS-4- solutions:

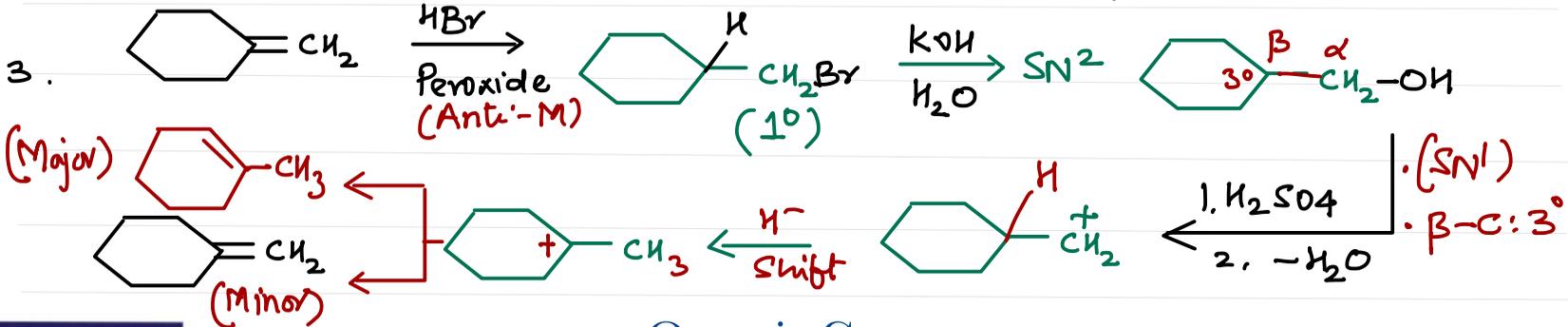
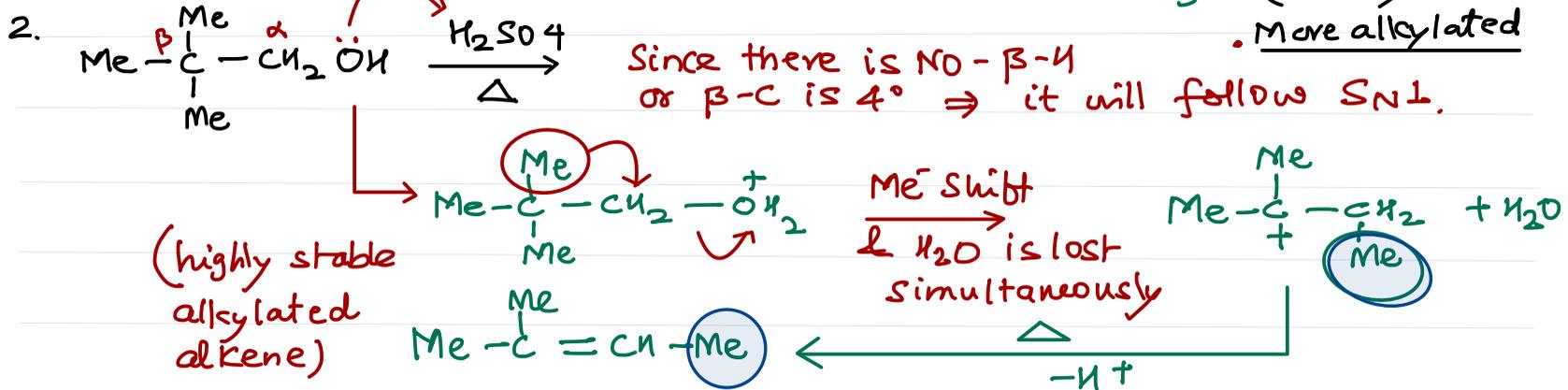
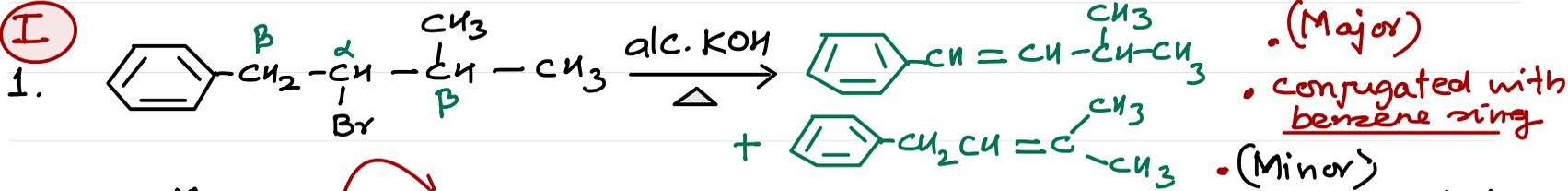
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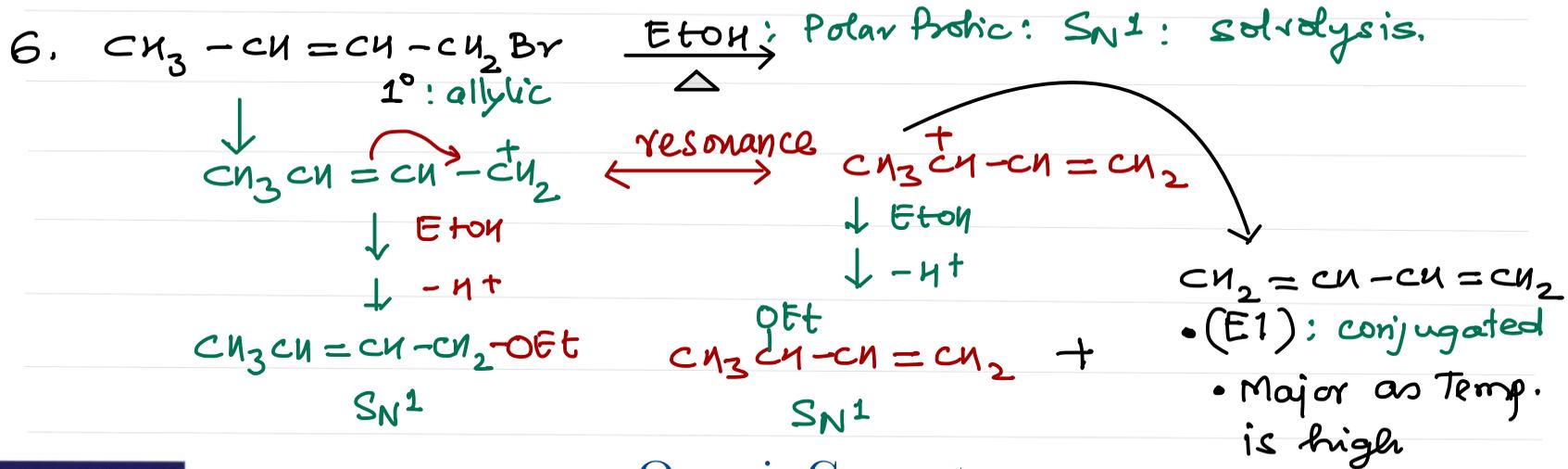
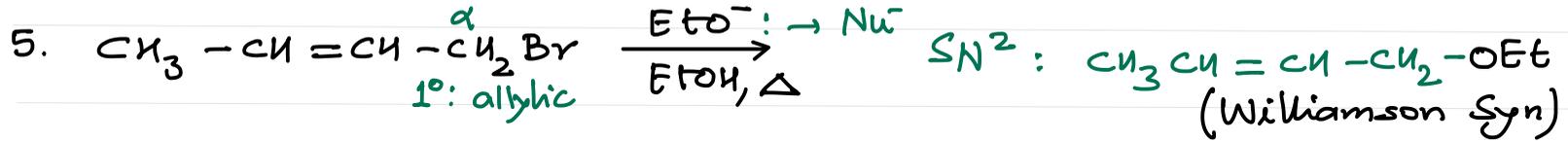
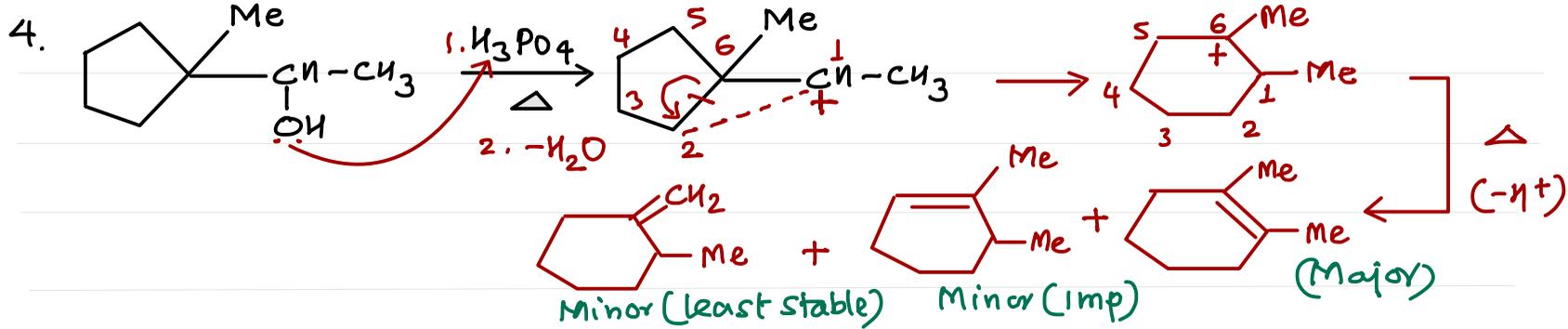


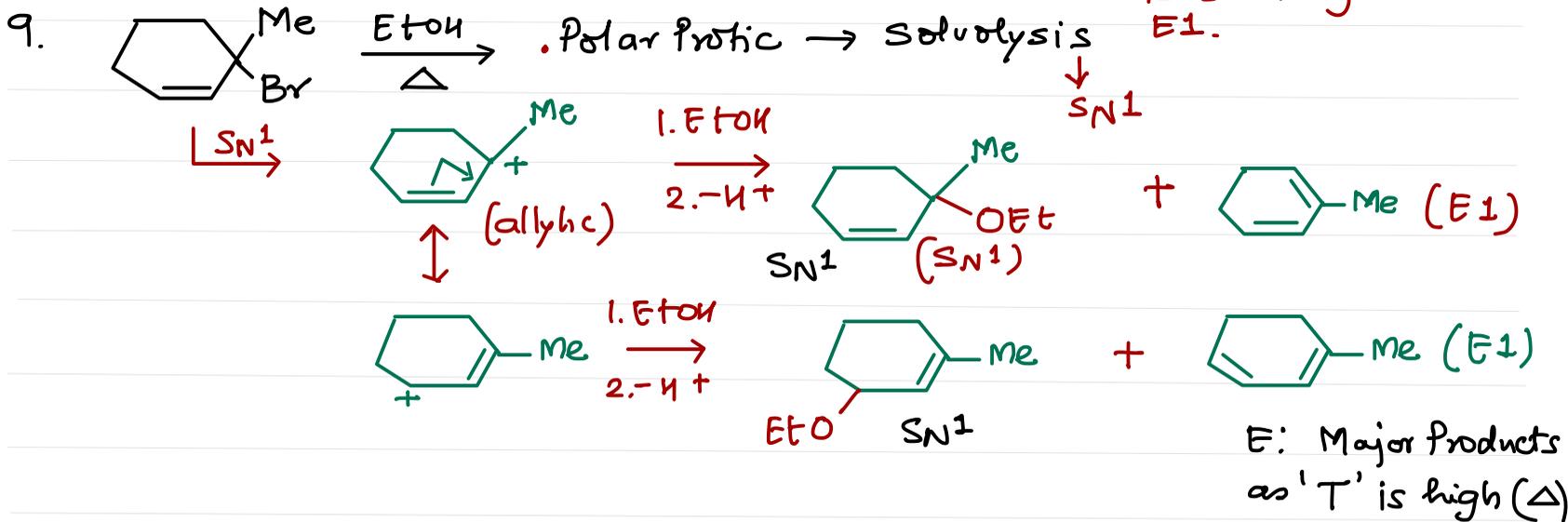
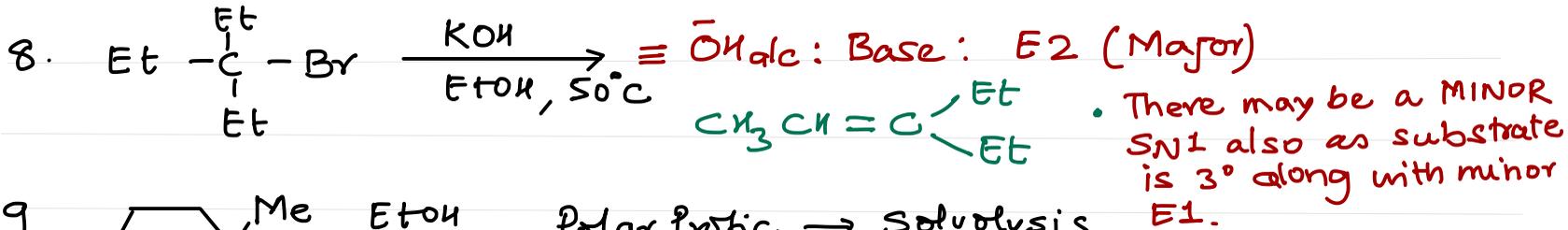
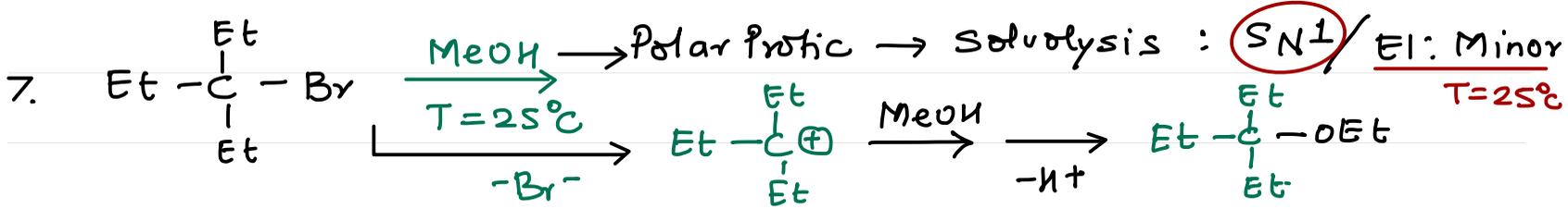
IV

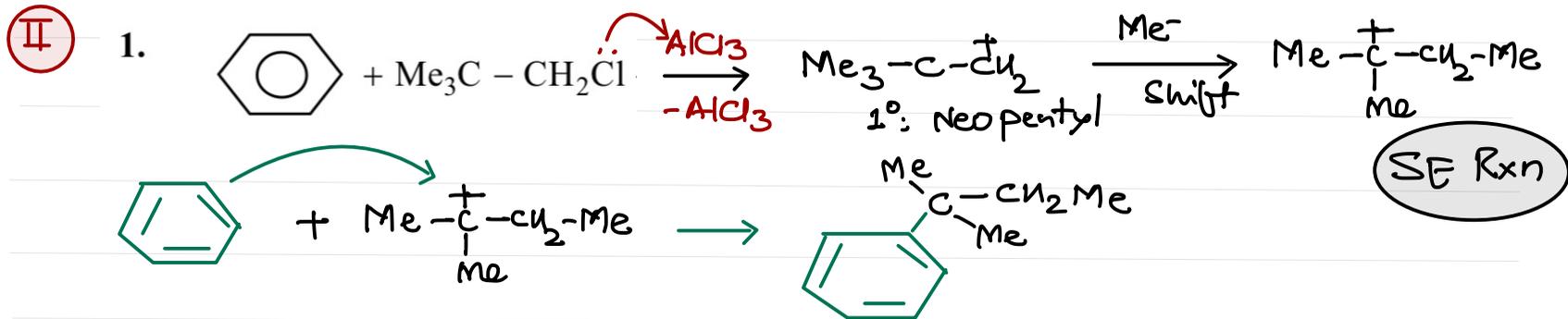
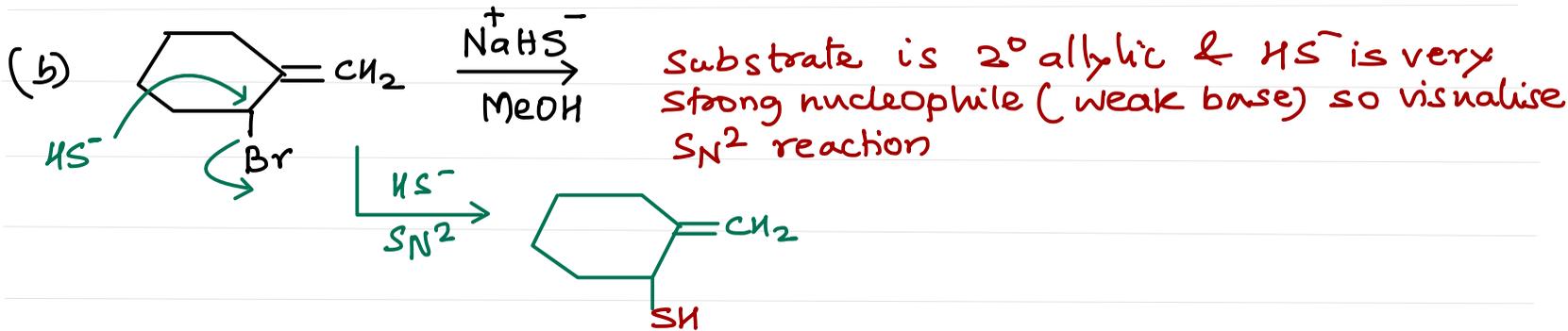
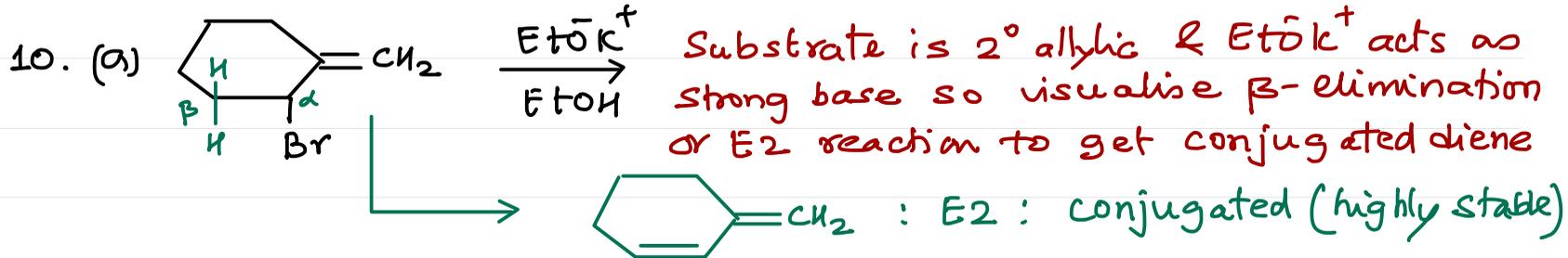


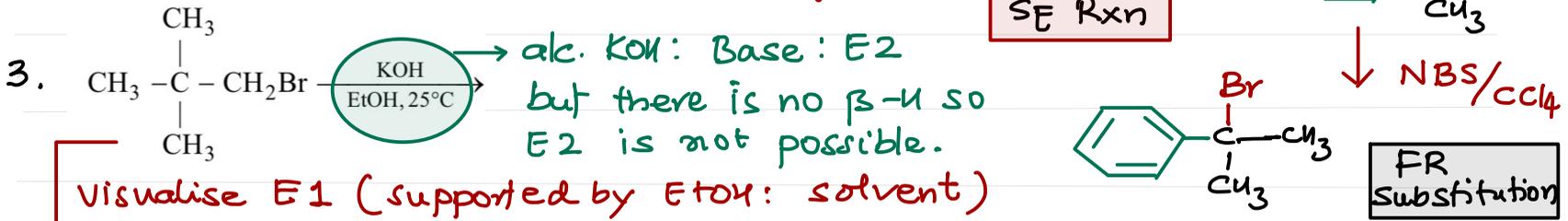
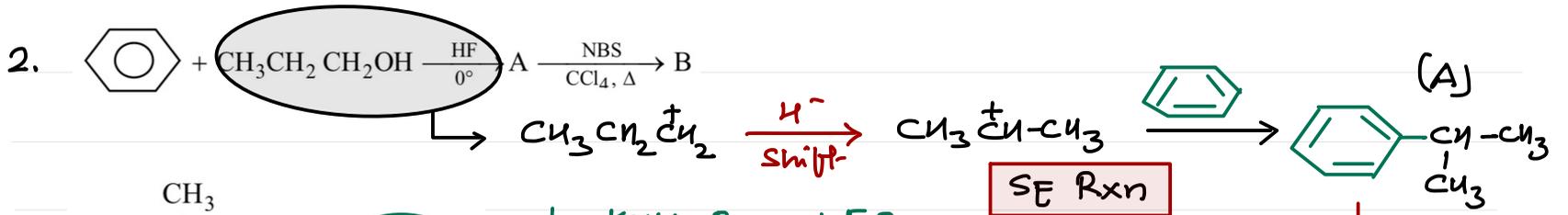
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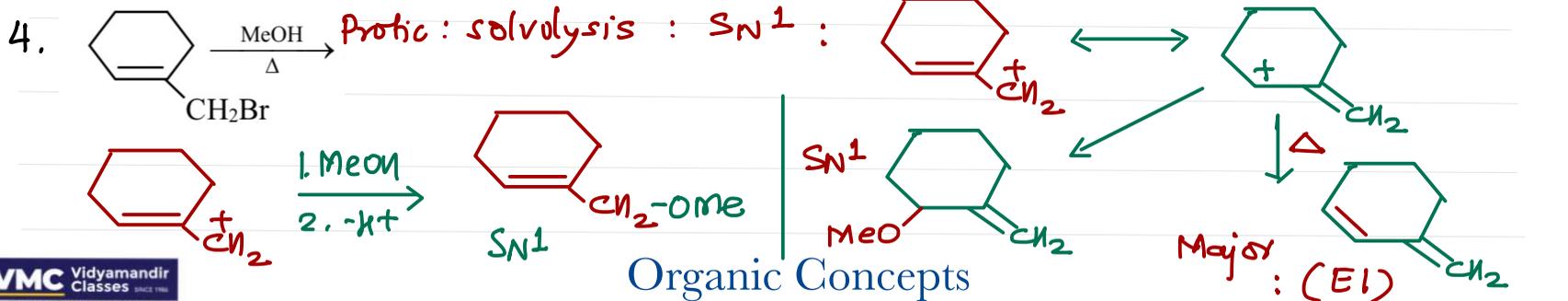


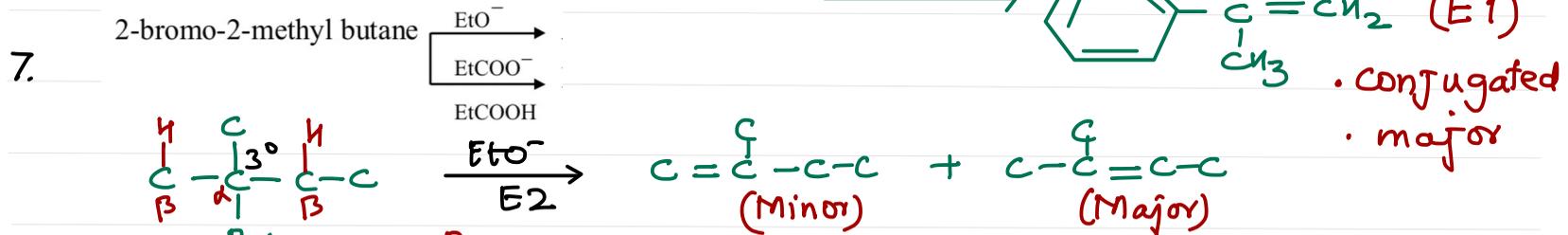
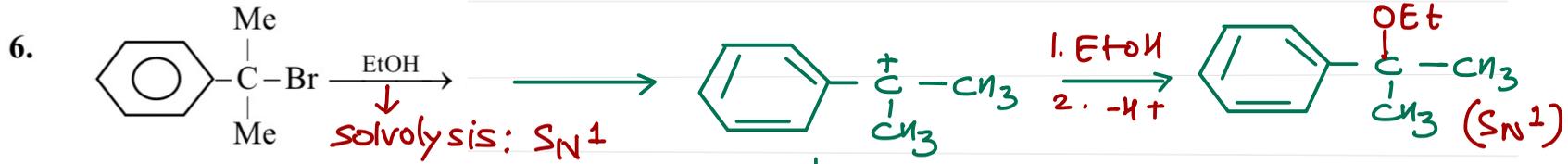
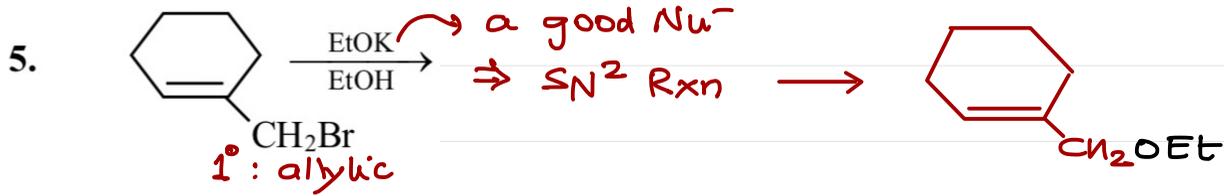




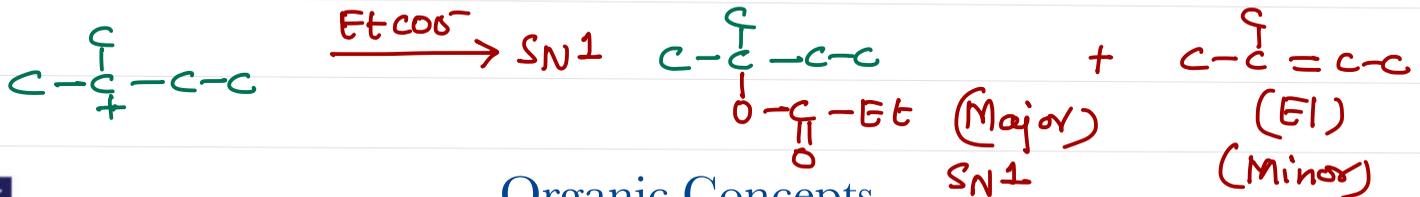


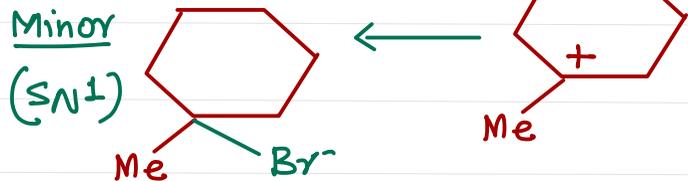
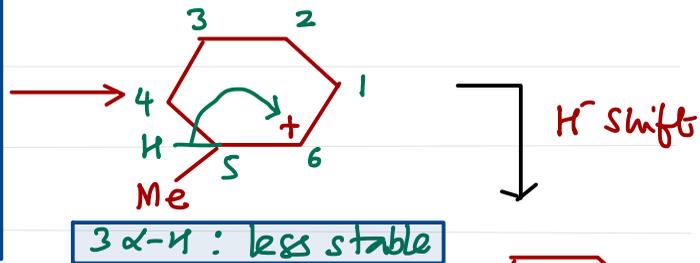
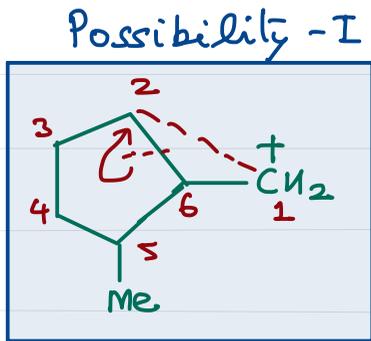
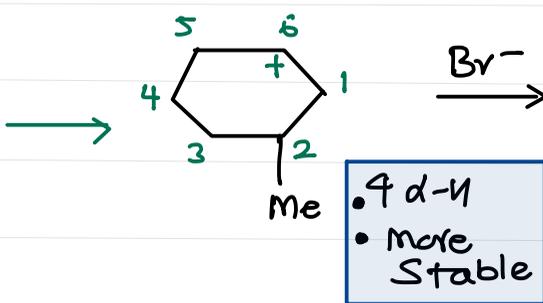
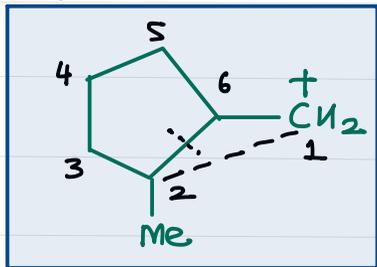
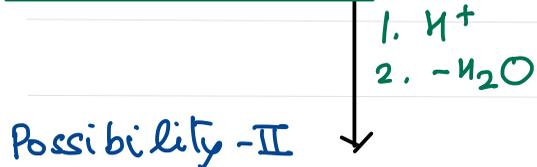
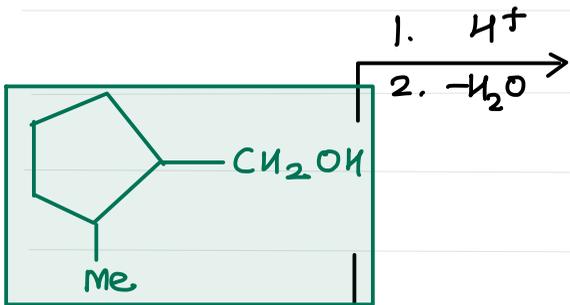
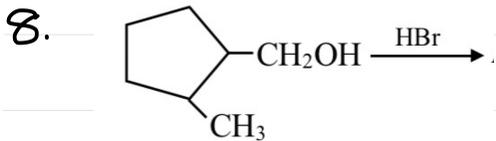
• product yield is poor with SN1 being major at 25°C





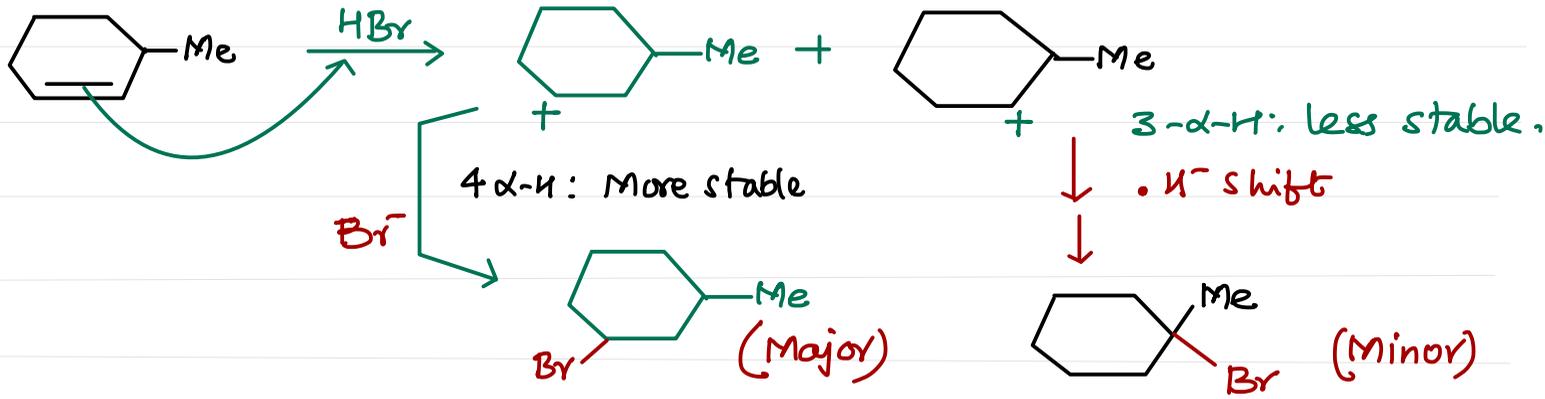
Et-C(=O)-O^- : weak base so E2 is not possible.
 EtCOOH : \rightarrow Protic \rightarrow solvolysis can occur (S_N¹)



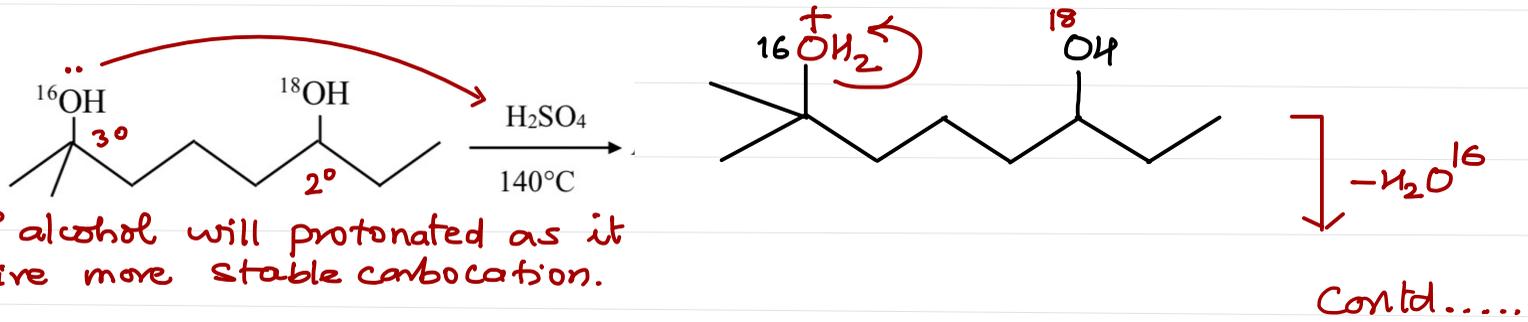


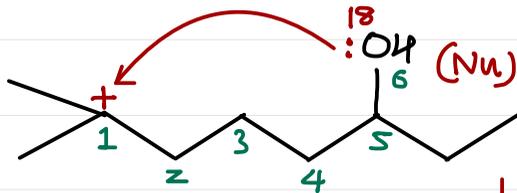
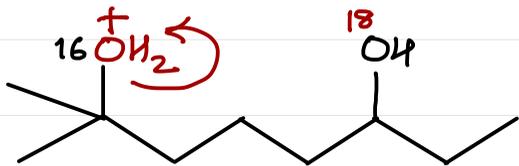
- A similar question we did in today's class.
- here it is $\text{S}_{\text{N}}1$. ($\text{E}1$)

9.

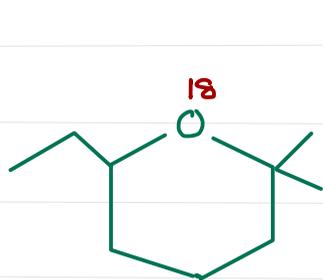


10.



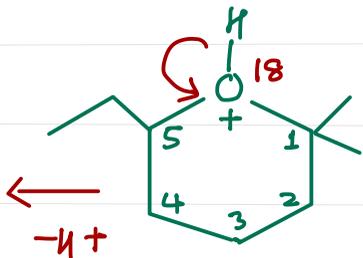


E1
(-H⁺)



S_N1
(Major)

(as T is NOT 170°C)



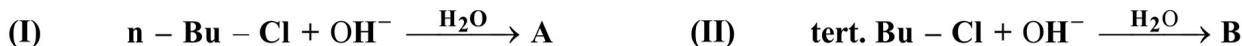
-H⁺



(E1 : MINOR)

1.

Consider following two reactions : (I) and (II)



(i) The rate of reaction – I _____ by factor _____.

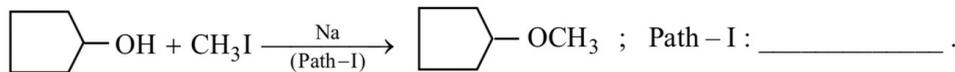
(ii) The rate of reaction – II _____ by factor _____.

When (a) $[\text{OH}^-]$ is doubled and (b) Both $[\text{OH}^-]$ and $[\text{RCl}]$ are doubled.

2.

Which of following path(s) is correct path for the formation of given product. If false, explain why ?

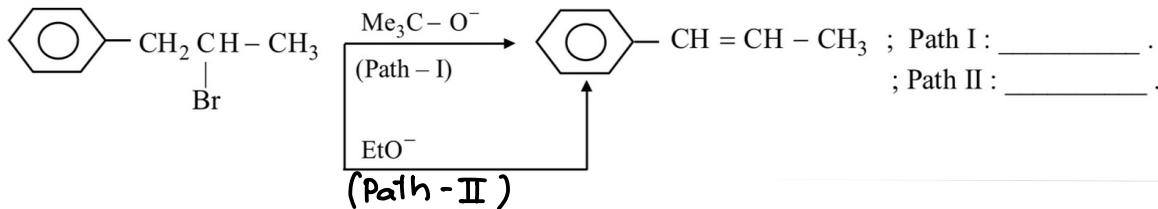
1.



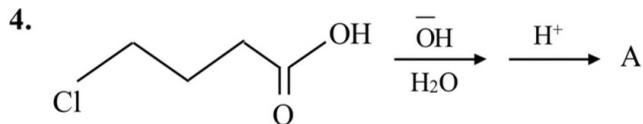
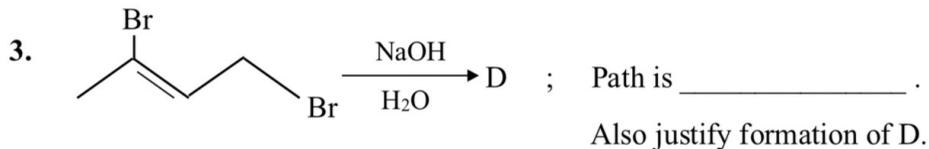
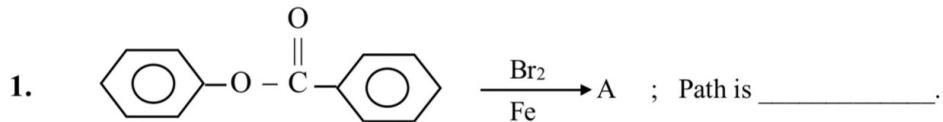
Or



2.

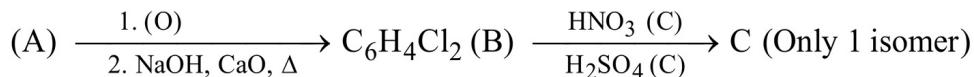
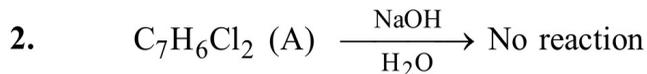
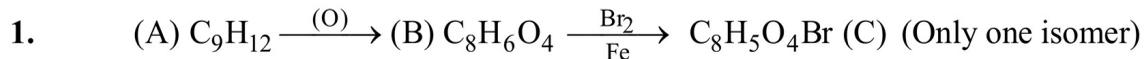


3. Identify the products.



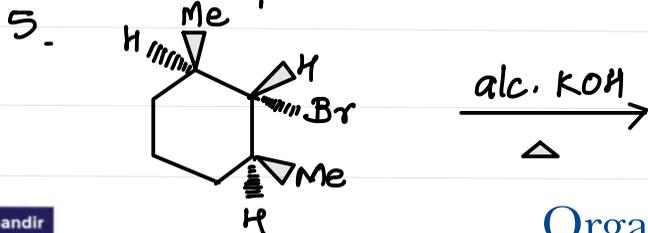
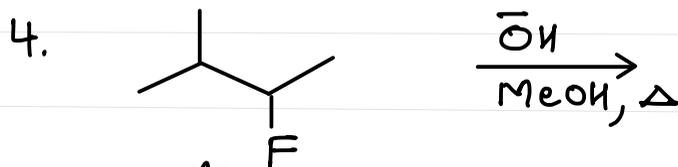
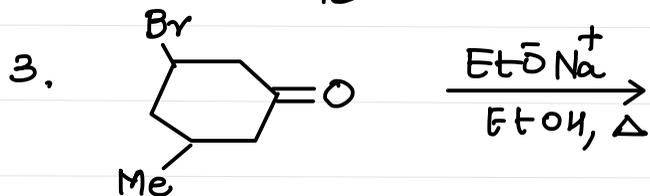
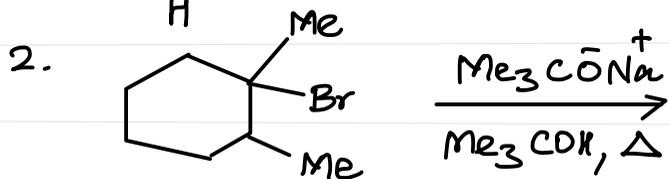
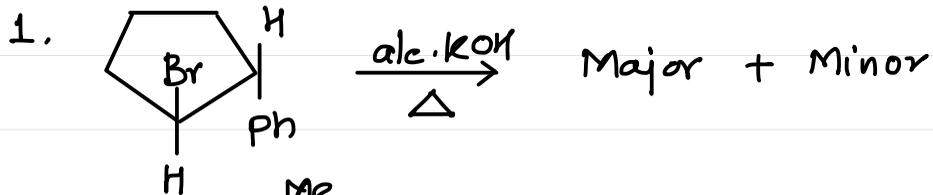
4.

Identify A, B, C.



5.

Identify Major & Minor Products.



Organic Concepts

⑥ Identify Major & Minor Products.

