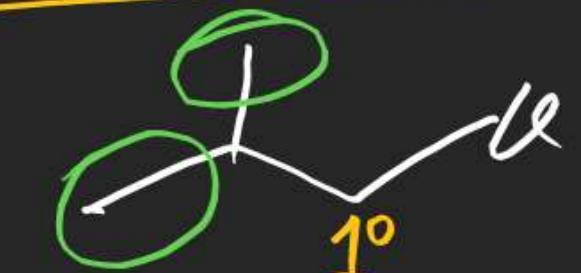
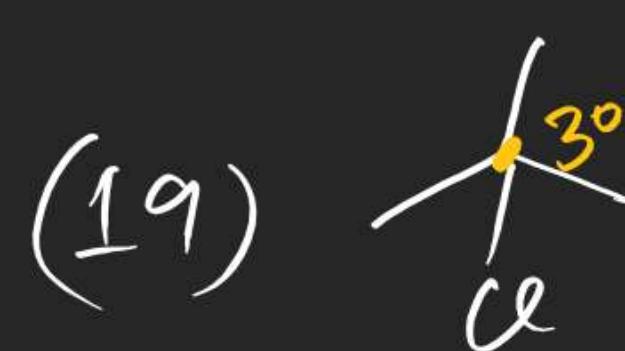
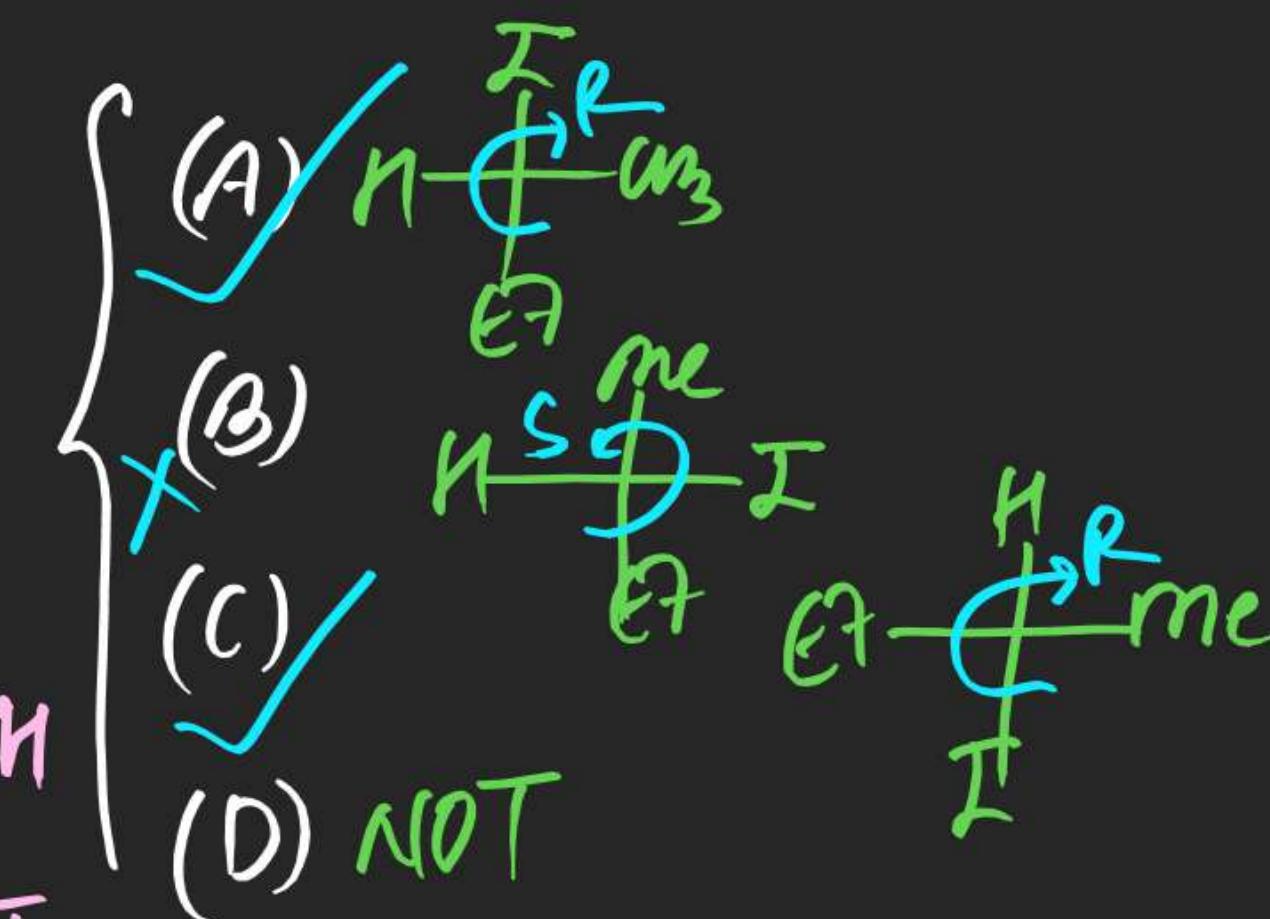
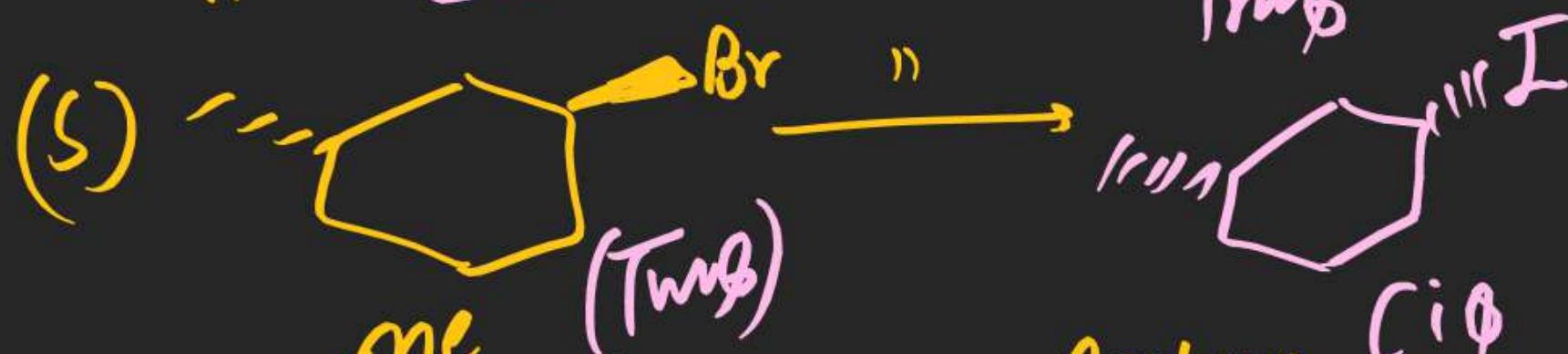
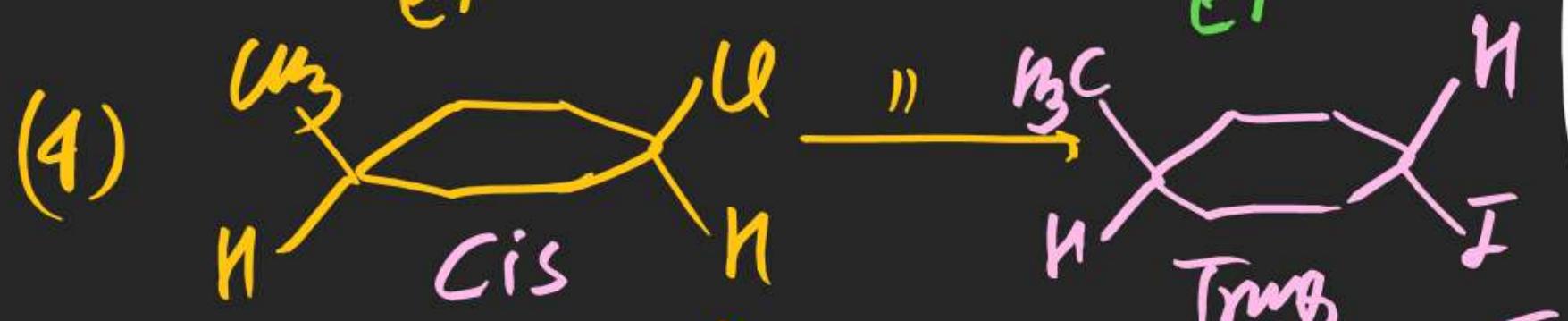
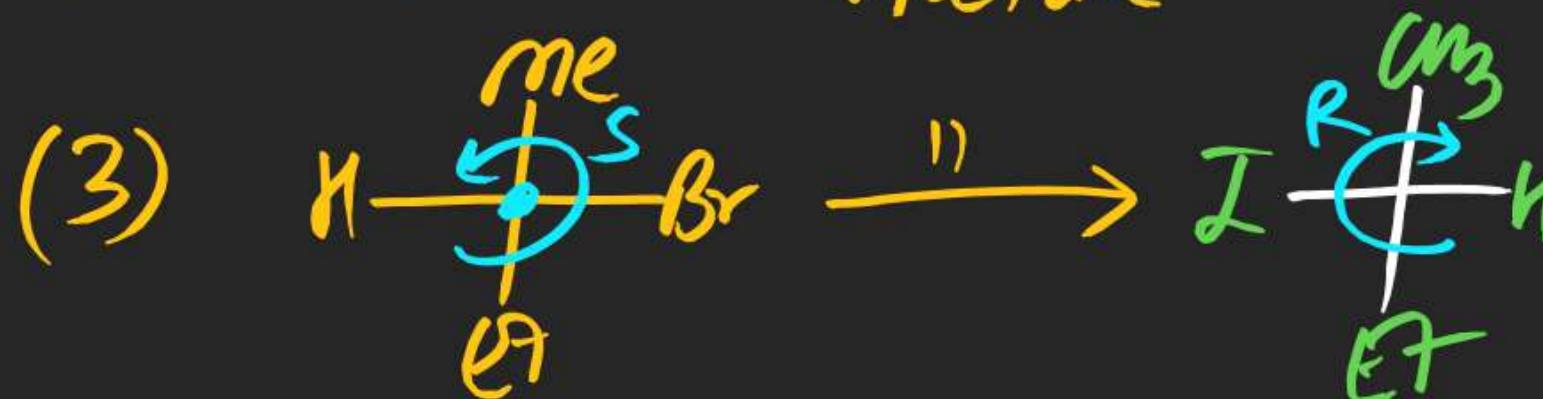


(SN²)

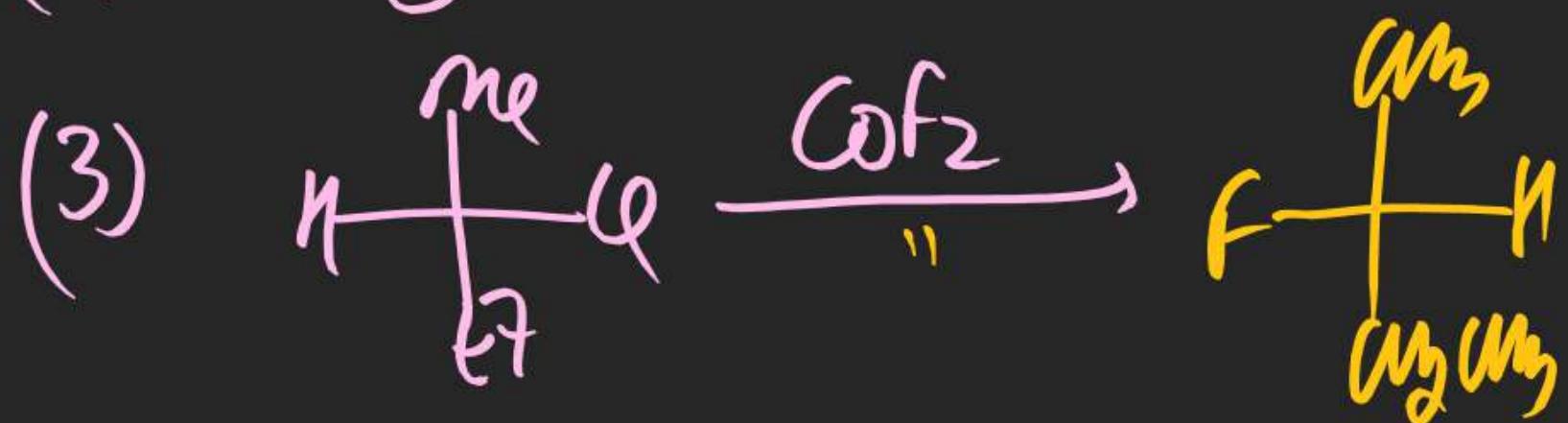
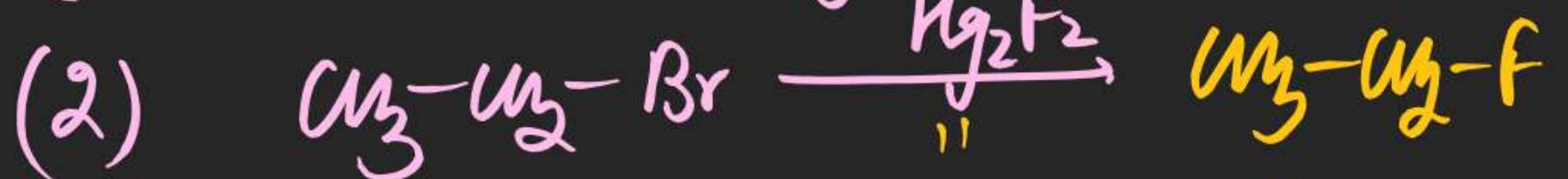


(SN¹)



(2) Swarz Rxn:

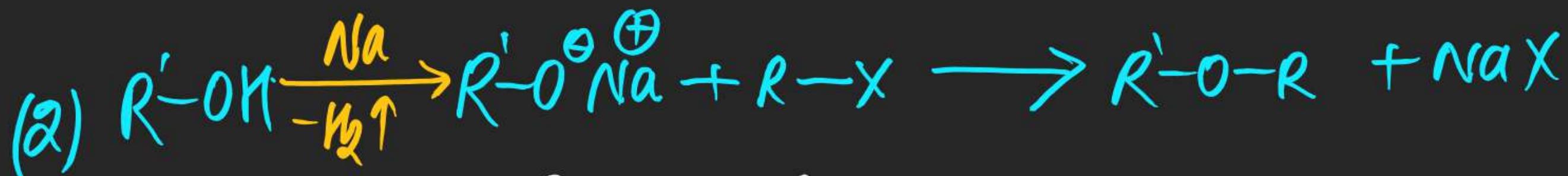
\Rightarrow In this Reaction Alkyl halide is Treated with AgF , Hg_2F_2 , CoF_2 - - - So that alkyl fluoride is obtained as a Product.



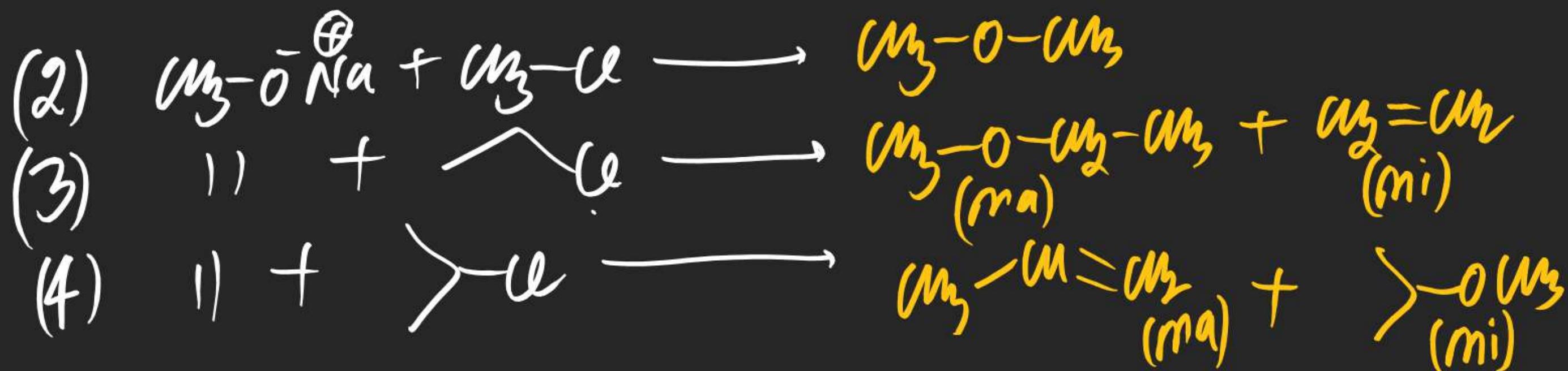
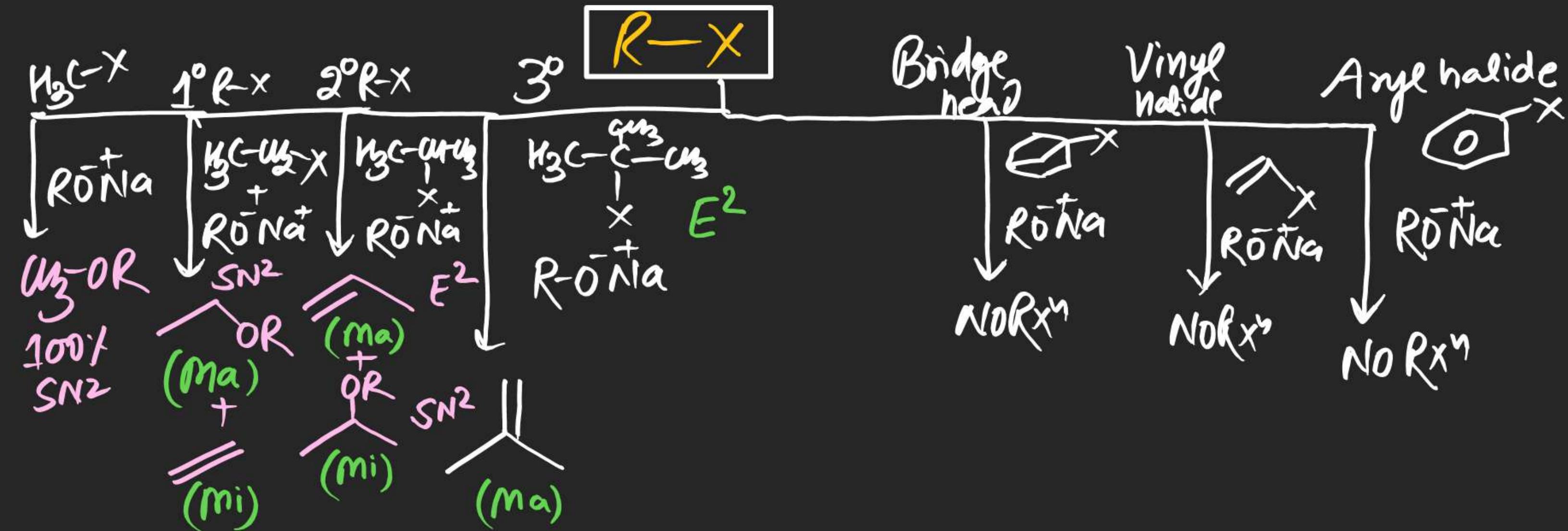


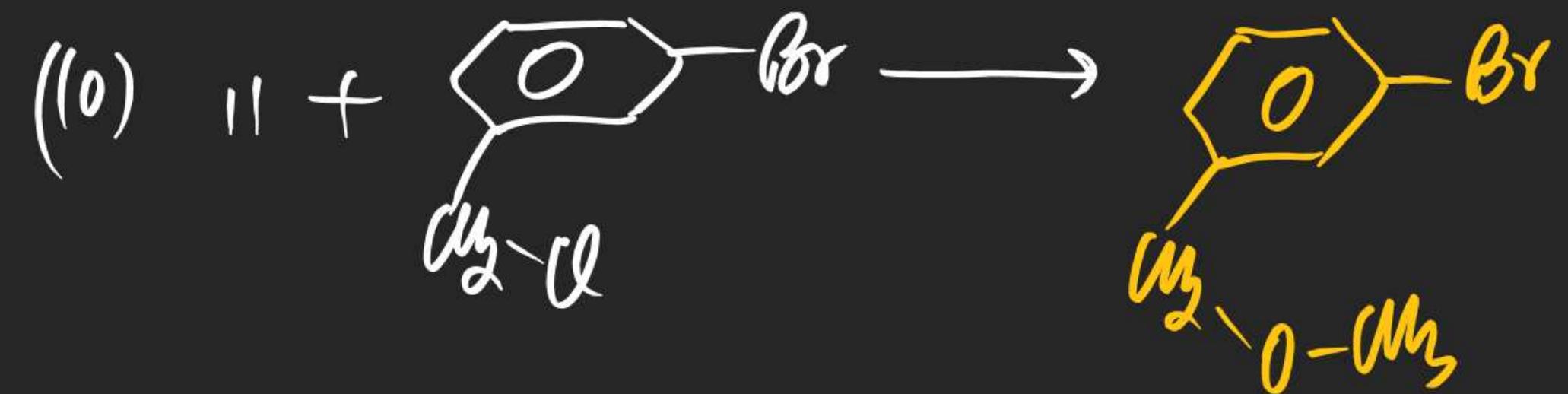
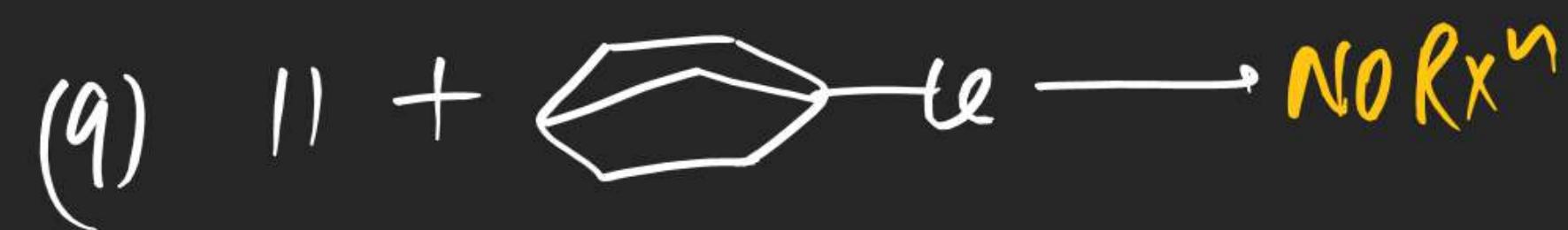
(#) Williamson Ether Synthesis!

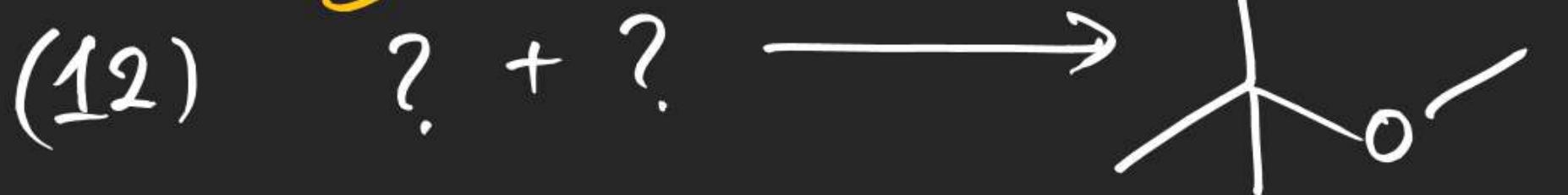
⇒ In this Reaction alkyl halide is treated with Sodium or Potassium alkoxide so that Ether is obtained as a Product.

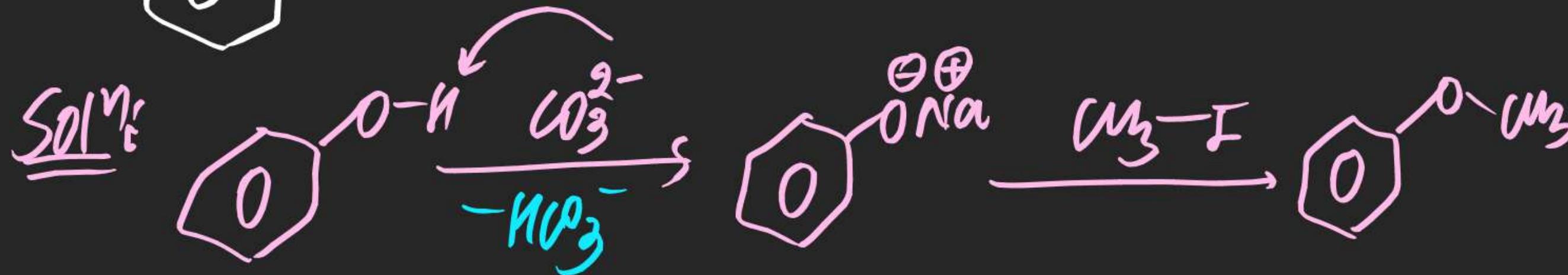


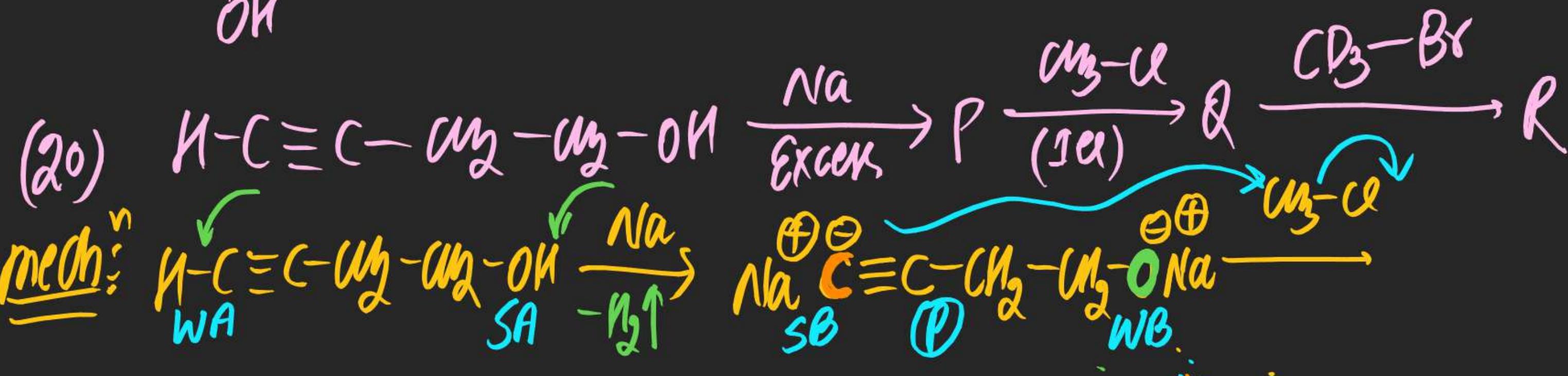
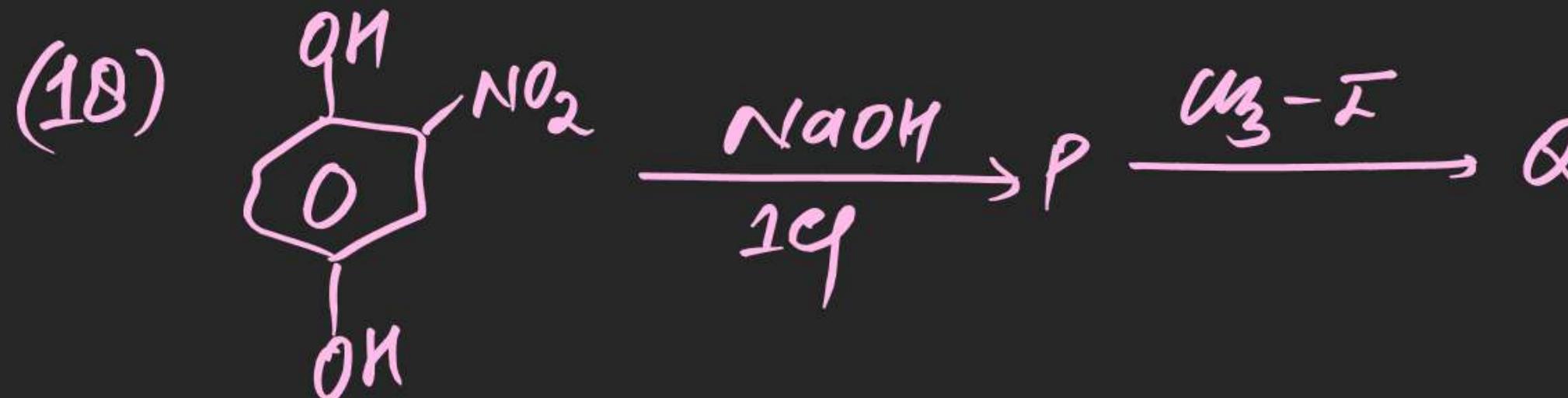
Note (i) S_N^2 mechanism.

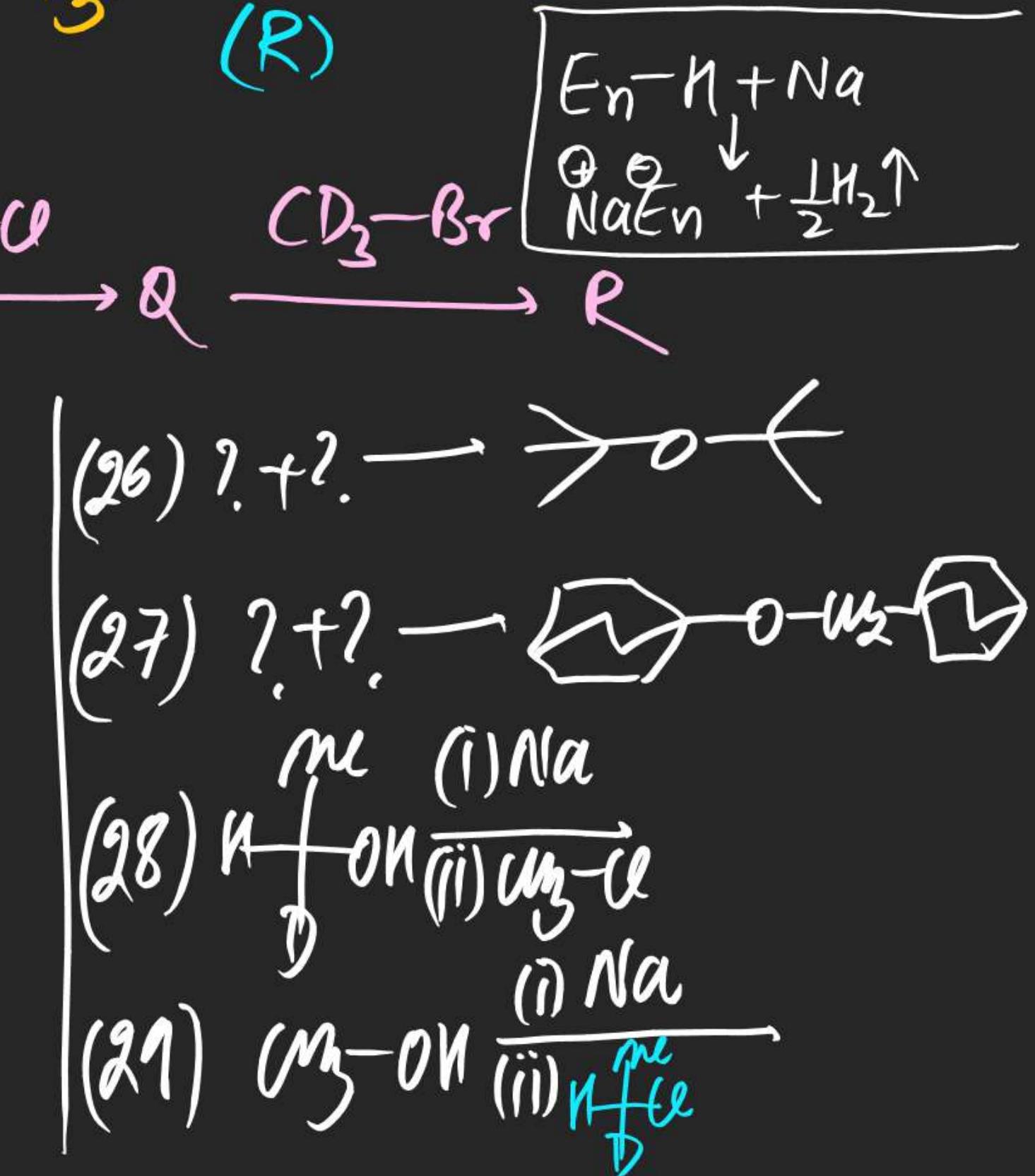
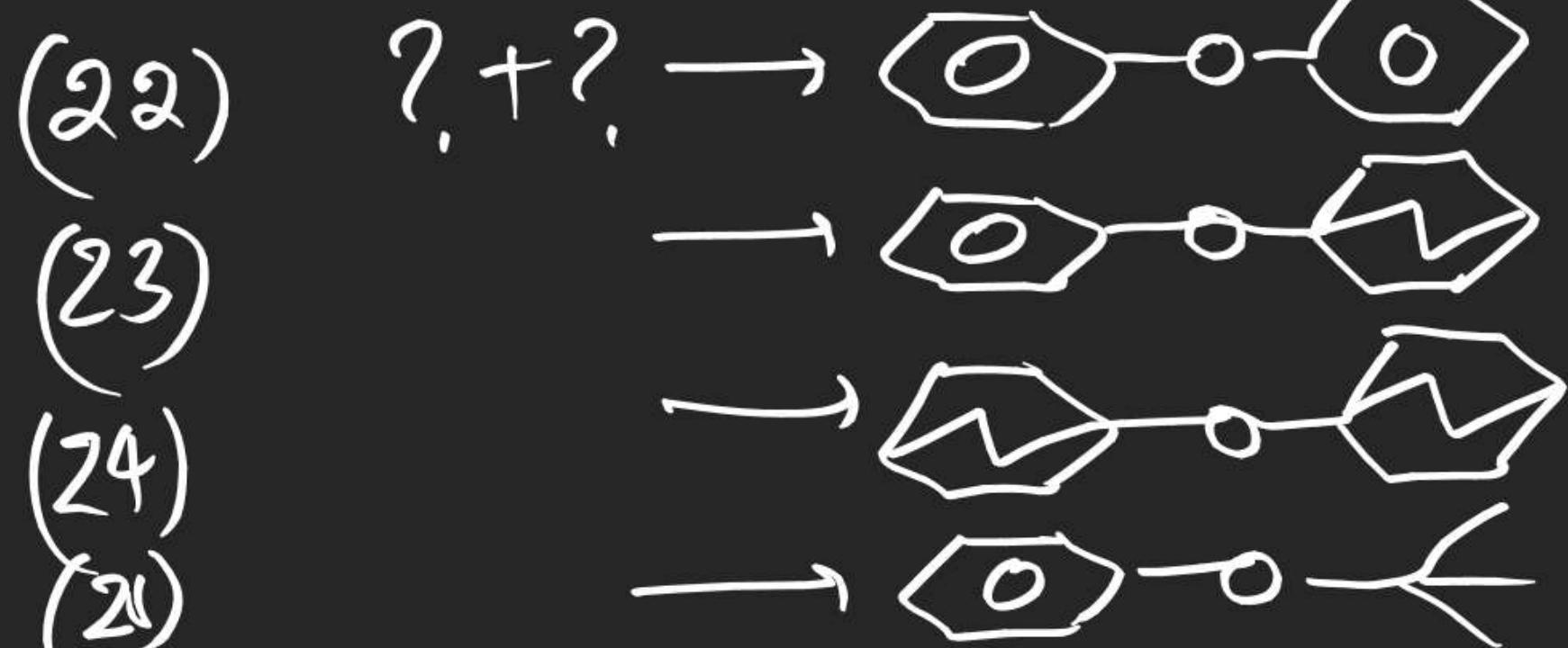
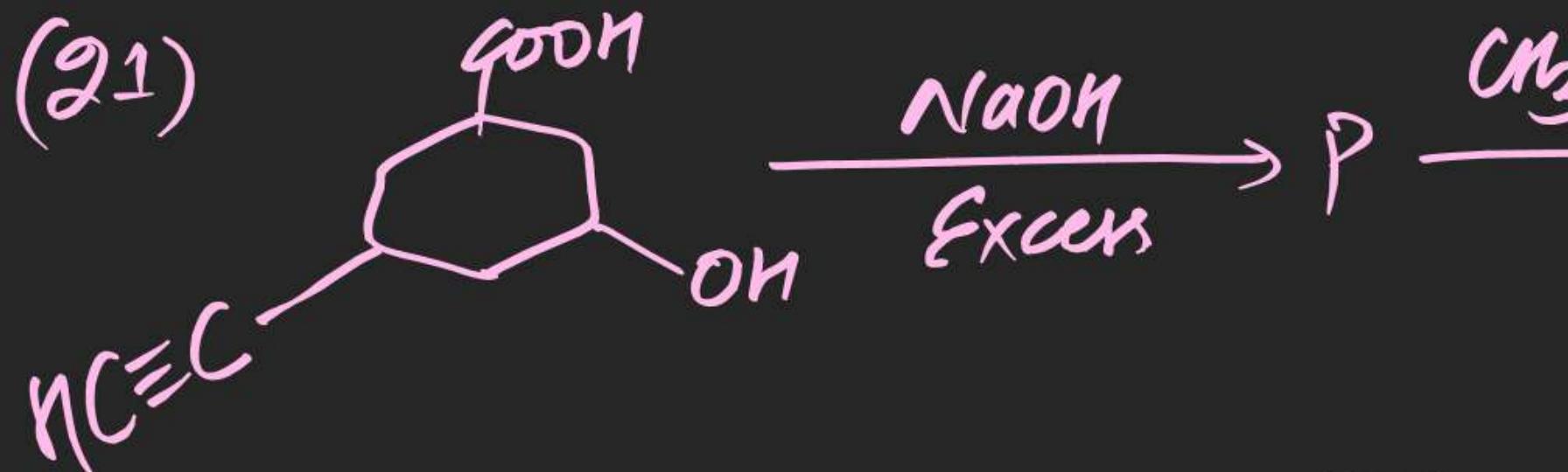
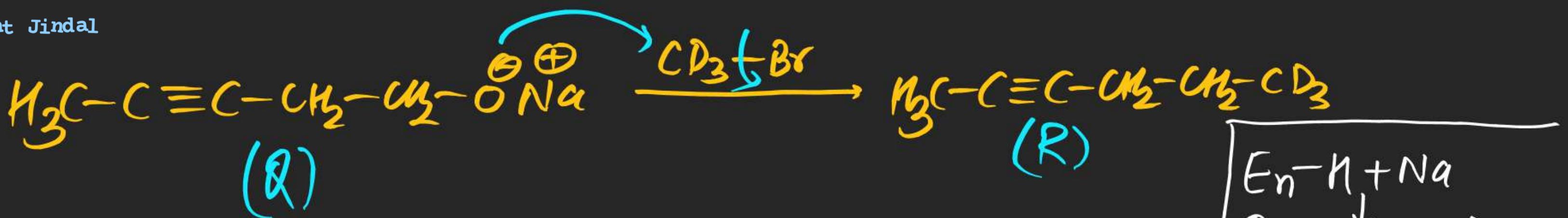


HW:Carbocation sheet (JM+JA)Substitution sheet (40 Ques)BB (ISO) (Next 40 Ques)

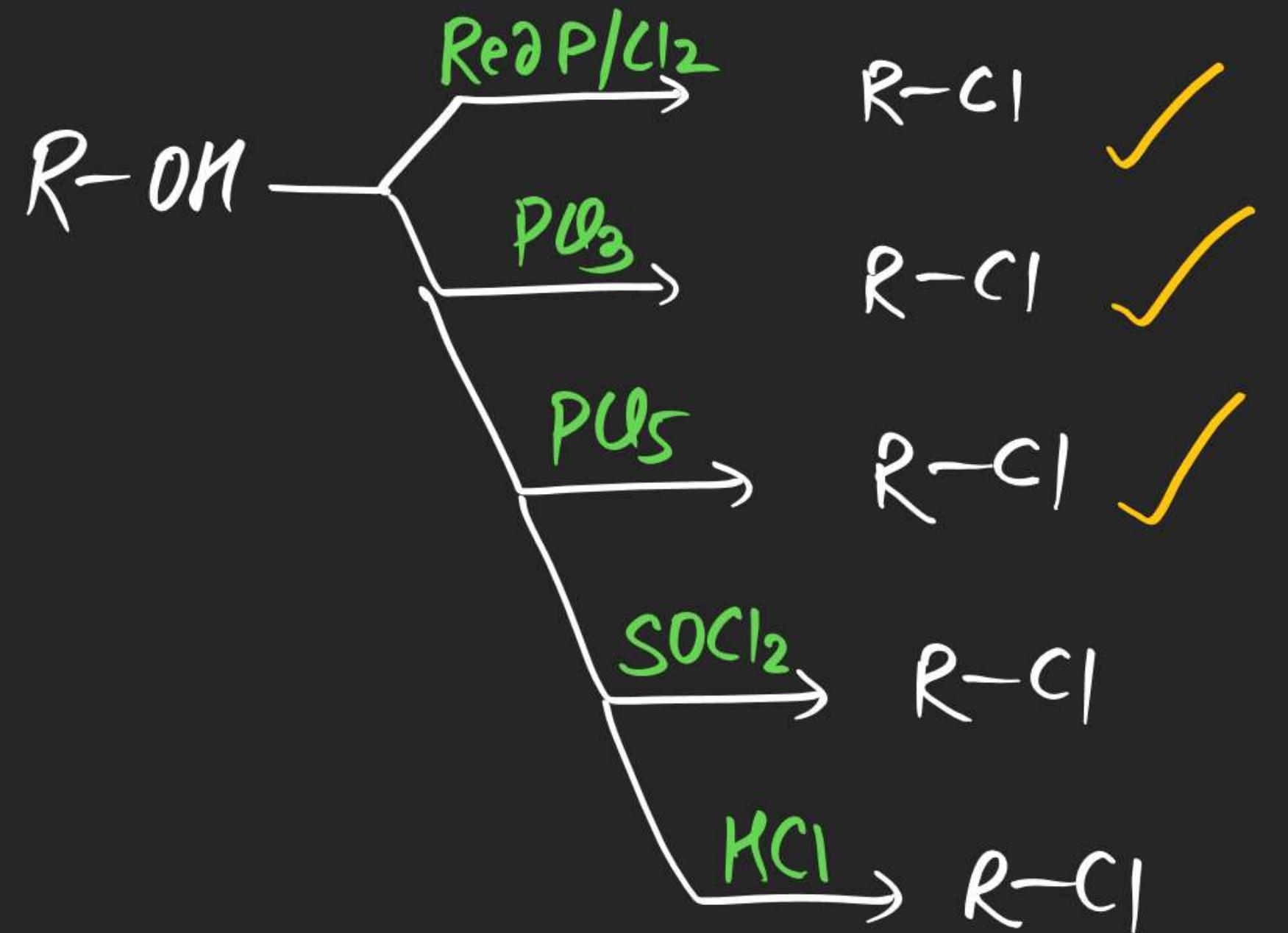






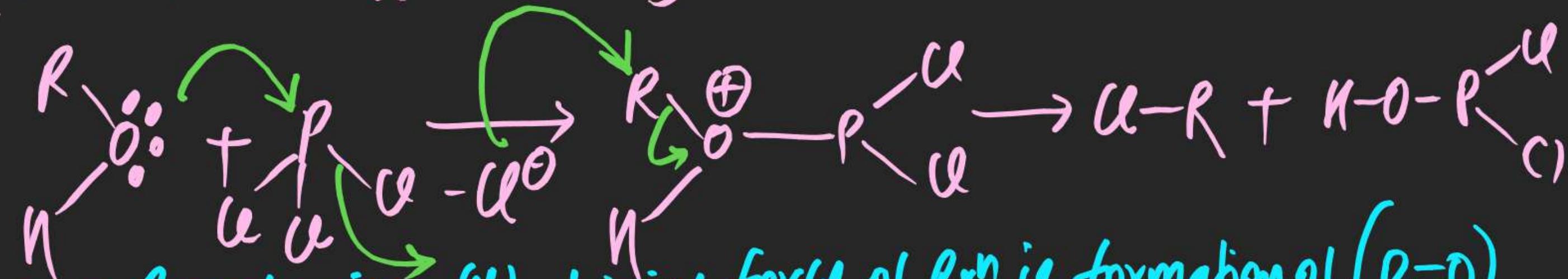


(30)



(#) Rxn of R-OH with RedP/Cl₂ or PCl₃

⇒ On Reaction of R-OH with RedP/Cl₂ or PCl₃, Alkyl chloride (R-Cl) is obtained as a product



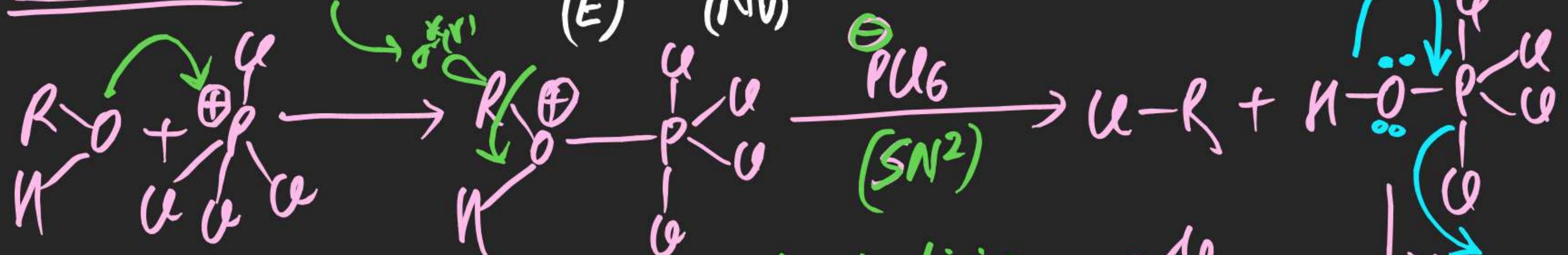
Note (i) S_N² mechanism (ii) driving force of Rxn is formation of (P=O)

(#) Rxn of PUS

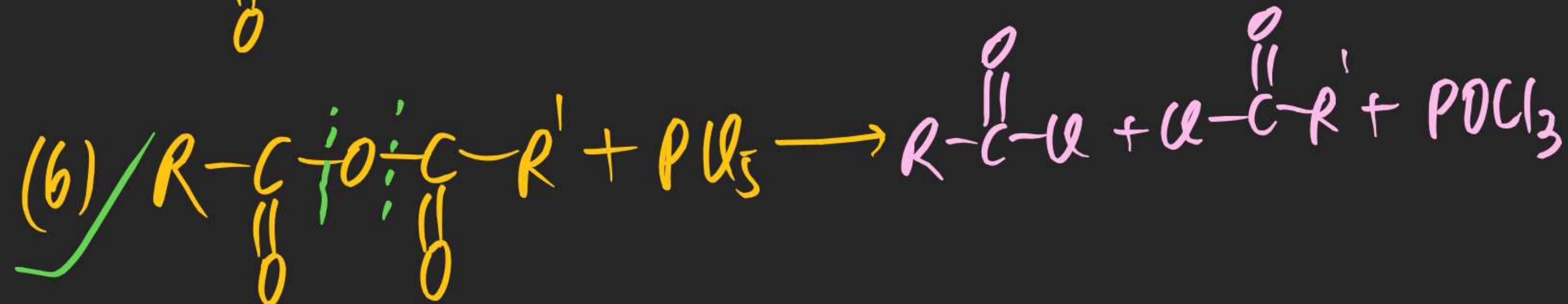
→ PUS on Reaction with organic Compounds gives Alkyl chloride / Acyl chloride as a product.

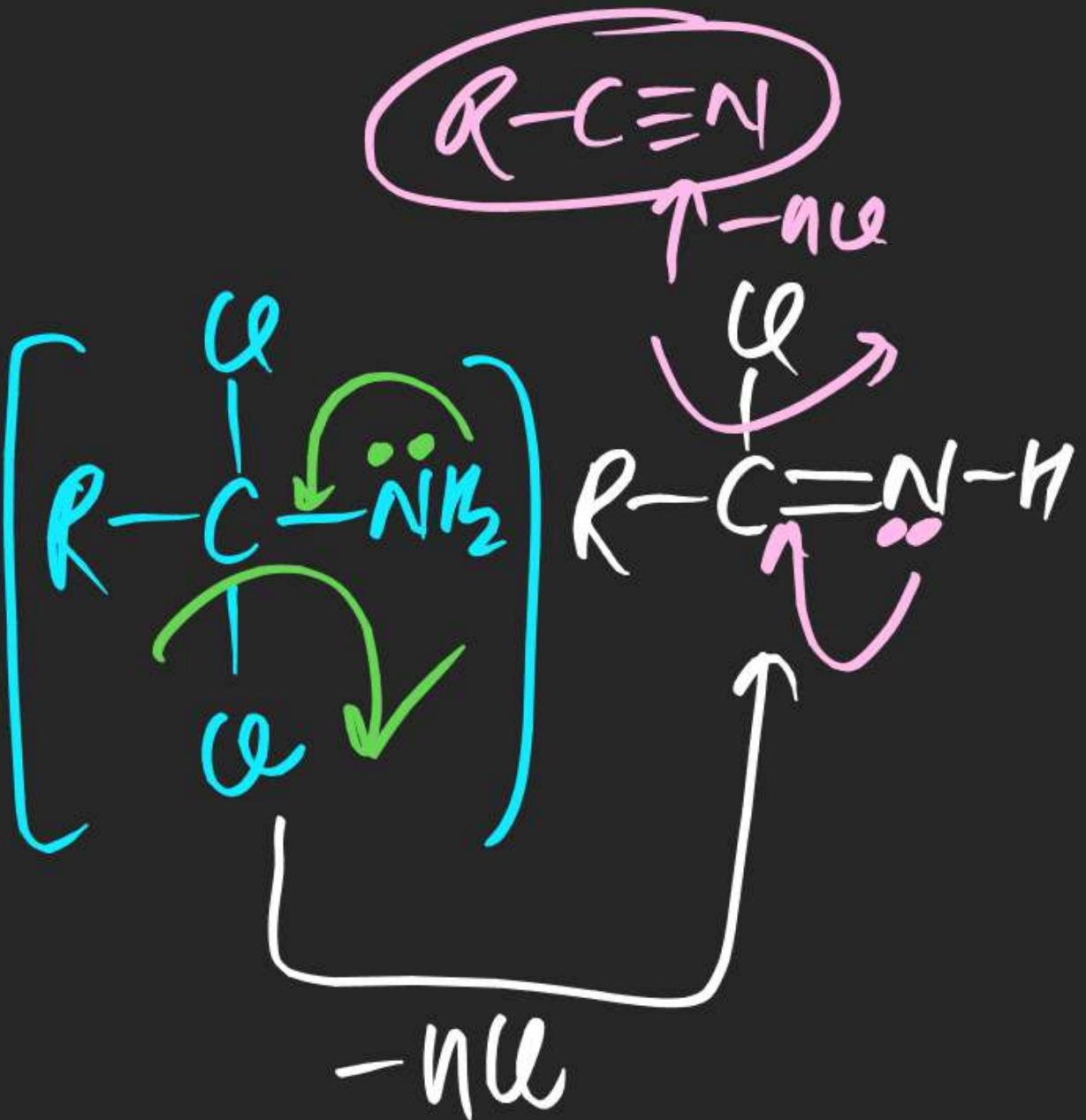
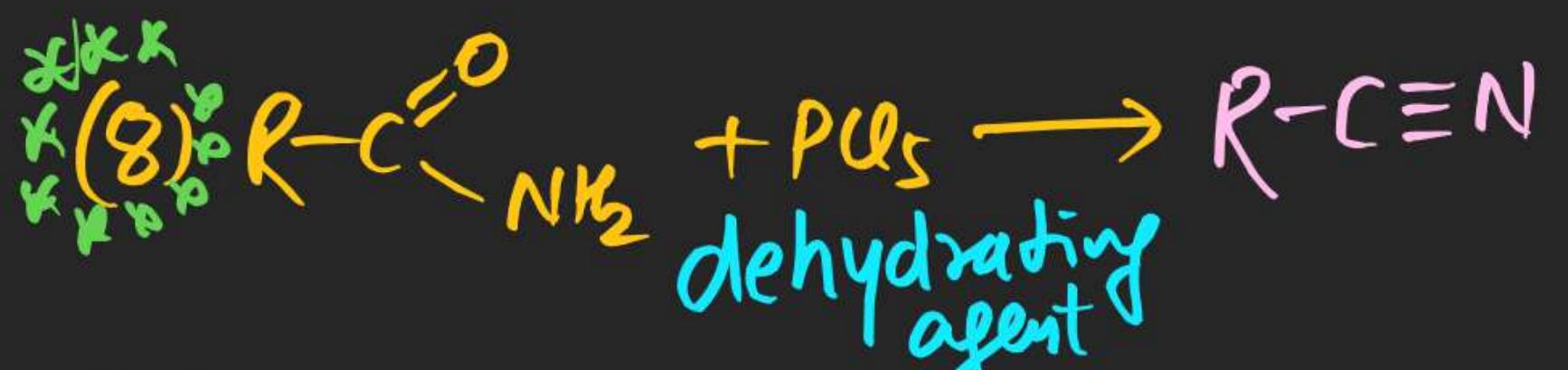


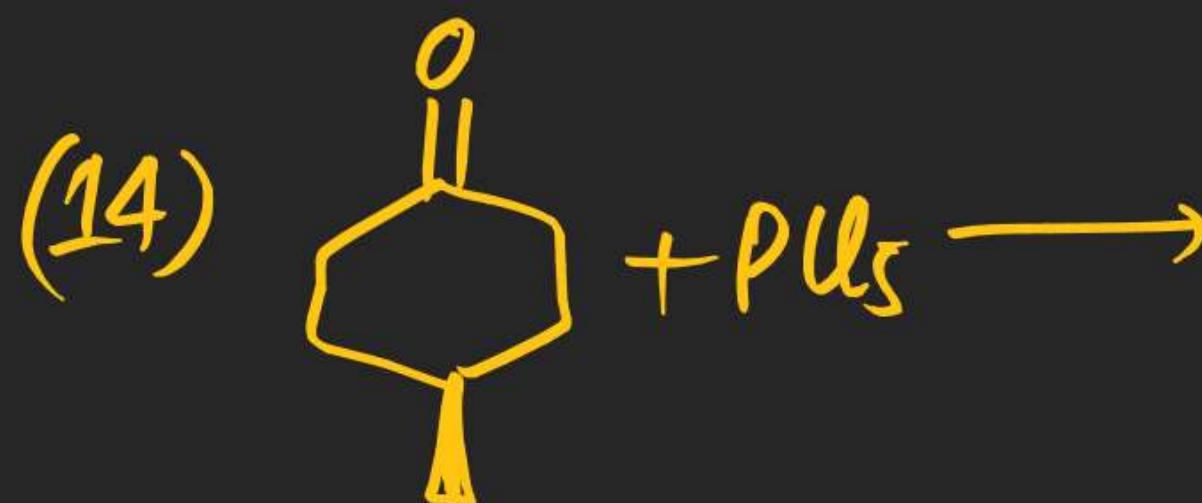
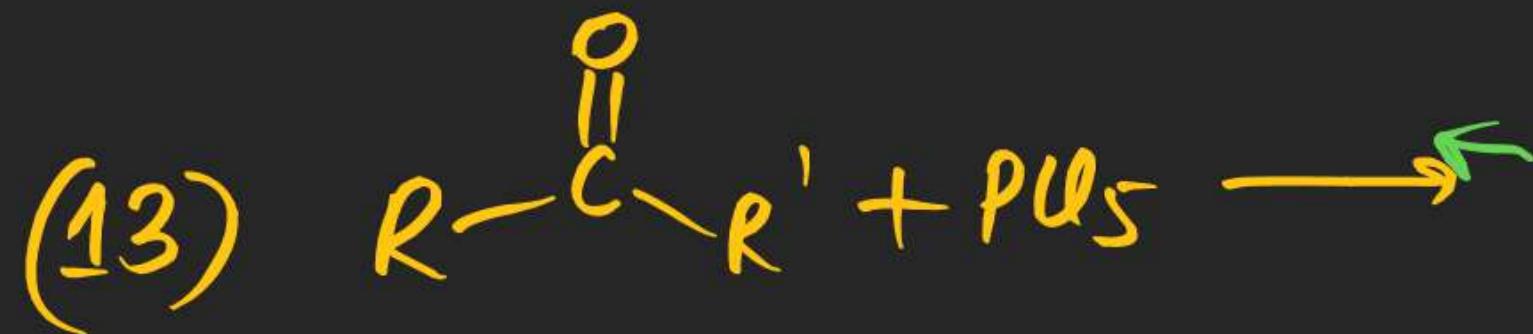
Mechanism:

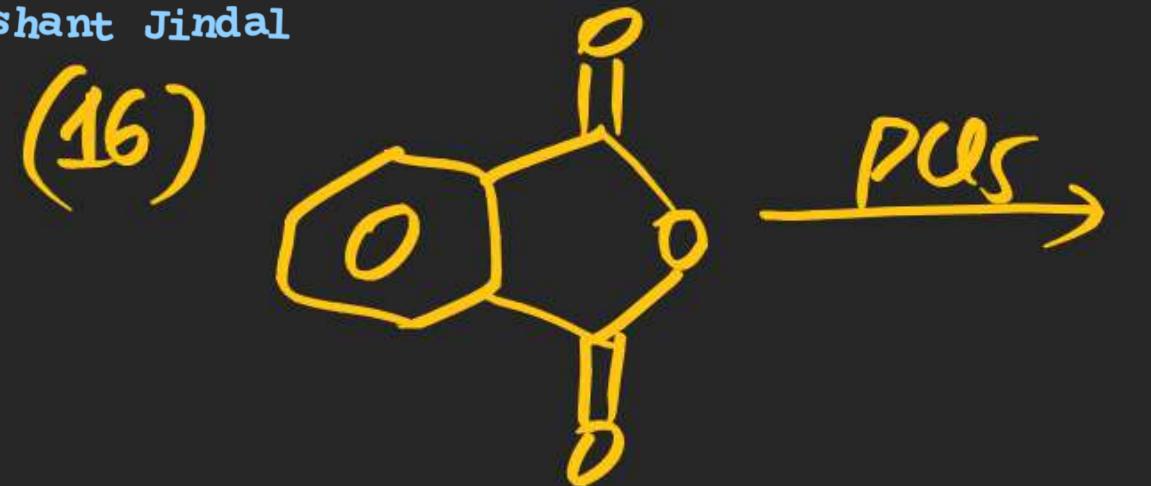


Note: (i) SN^2 mechⁿ (ii) $\rho=0$ formation is driving force.





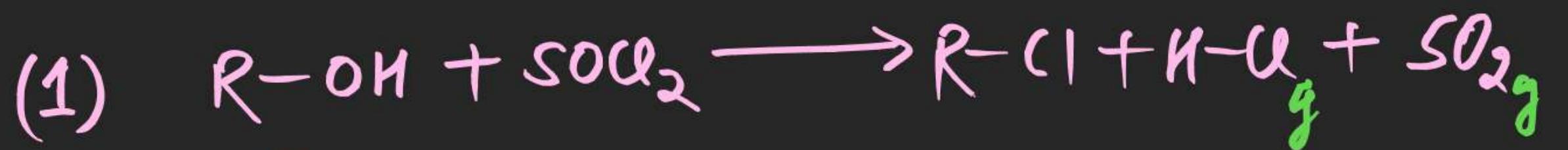


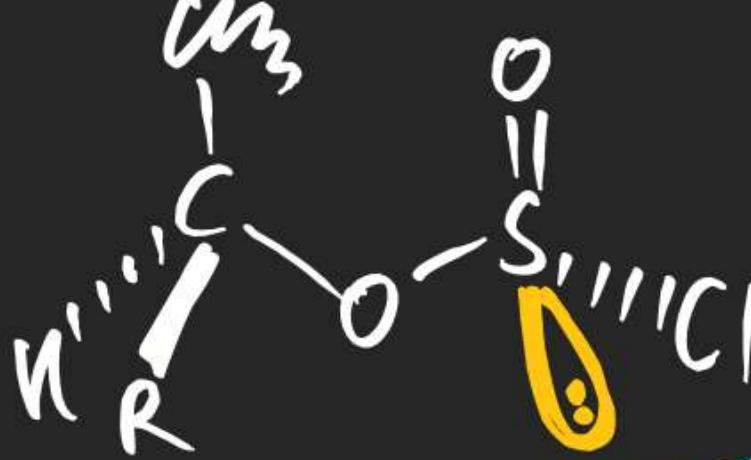
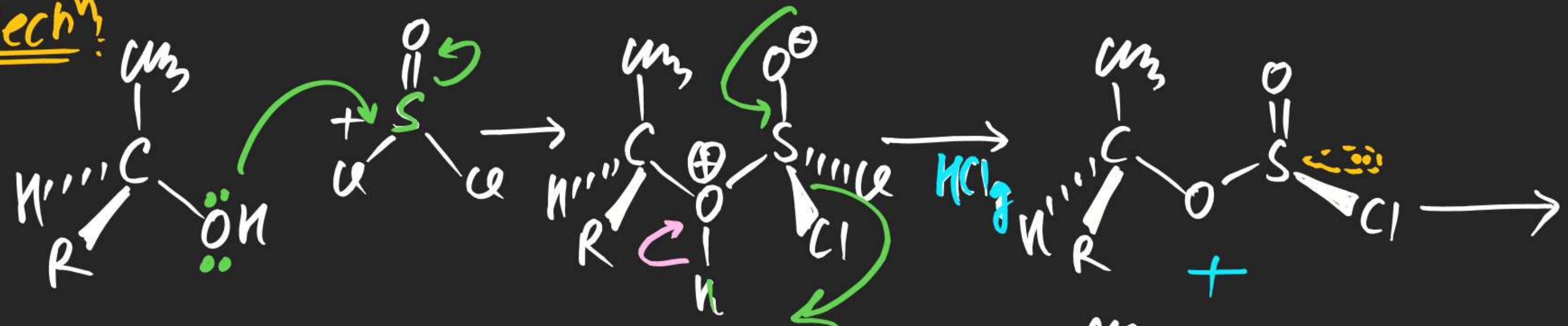


Darzen Reaction (Reaction of SOCl_2)

⇒ On Reaction of R-OH & SOCl_2 , alkyl chloride is obtained as a product.

⇒ Formation of R-Cl By Rxn of R-OH & SOCl_2 is most appropriate method due to formation of escapable gases SO_2 & HCl



mechⁿ:

- (A) Diastereomeric mix $R \neq H$
 (B) Enantiomeric mix $R = H$ or $R = \text{H}_3\text{C}$

