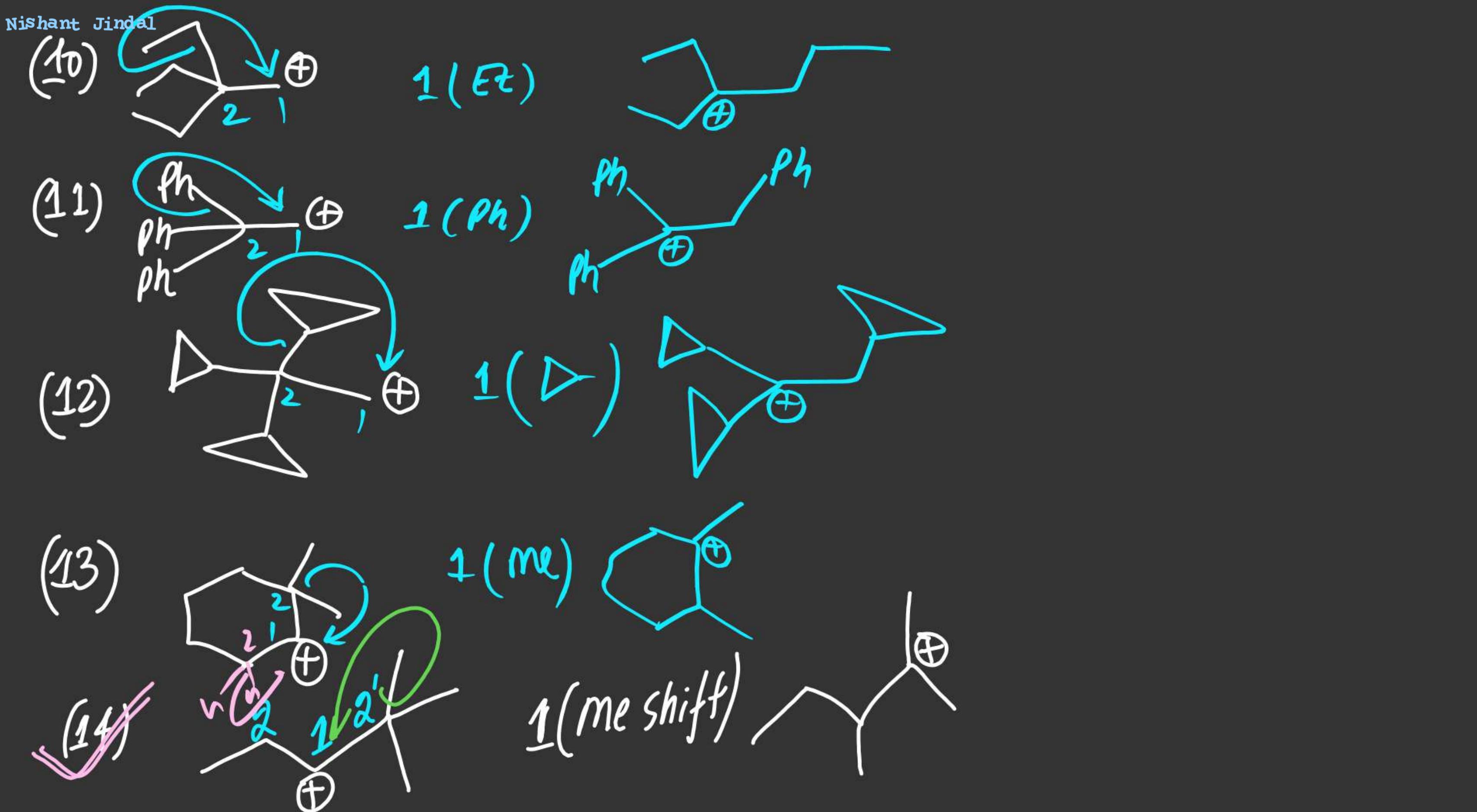
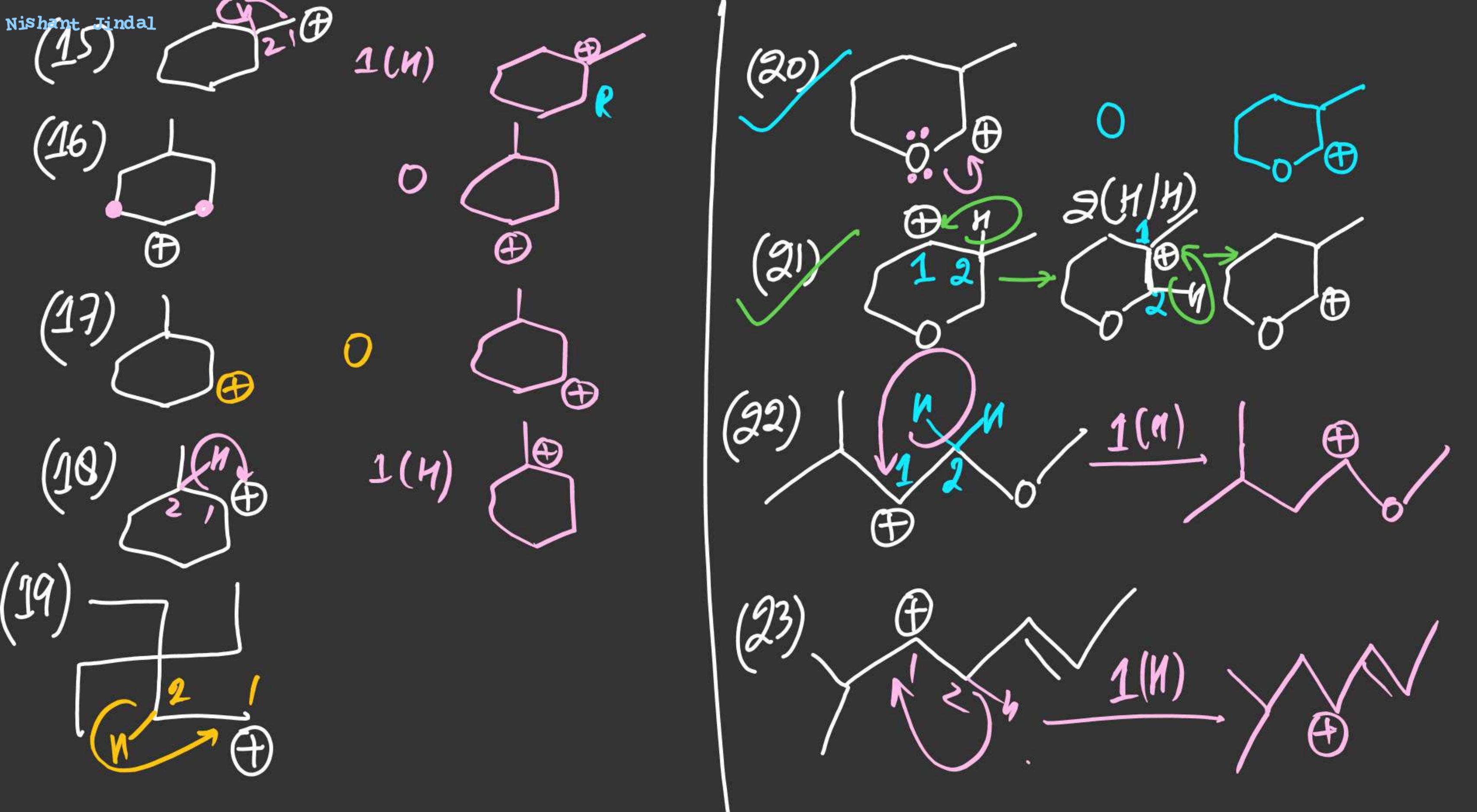
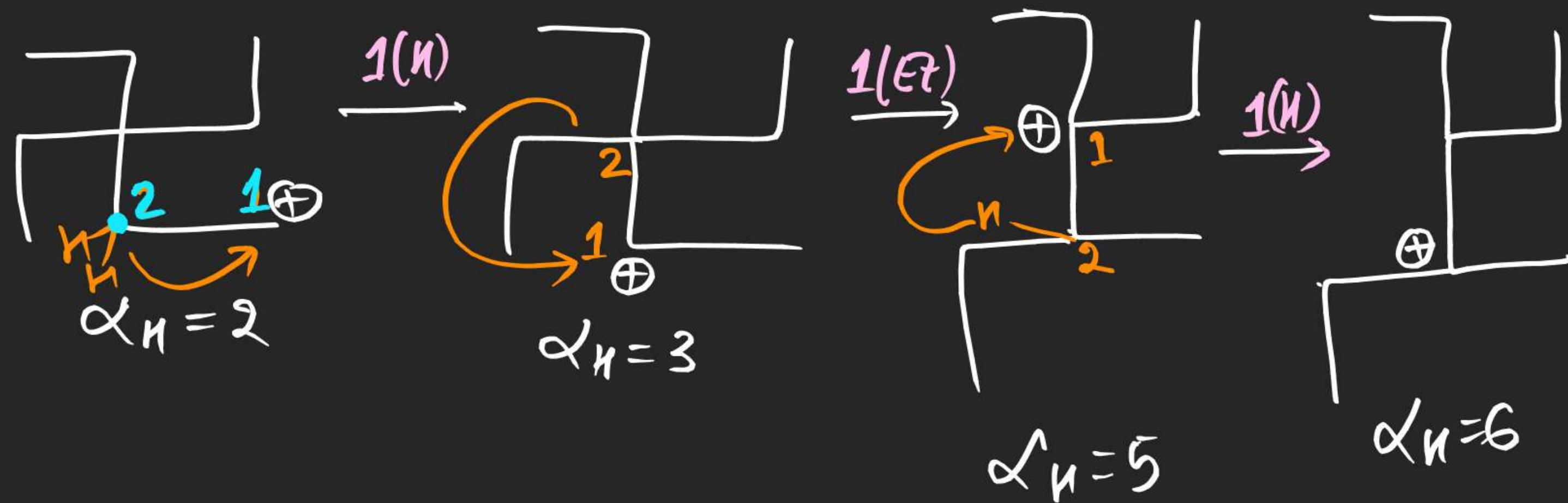


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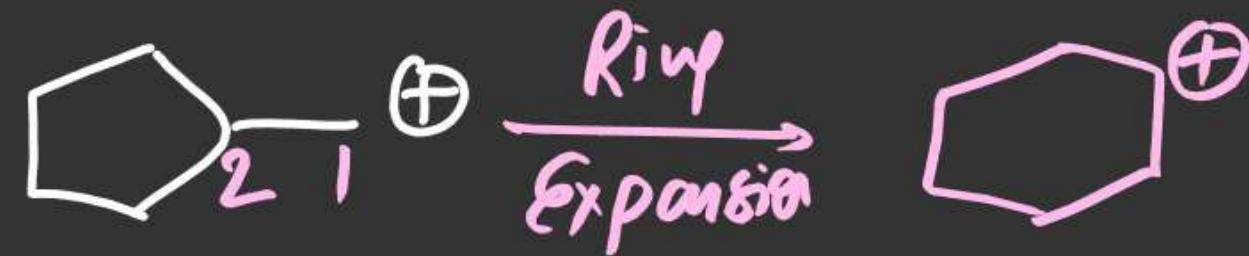




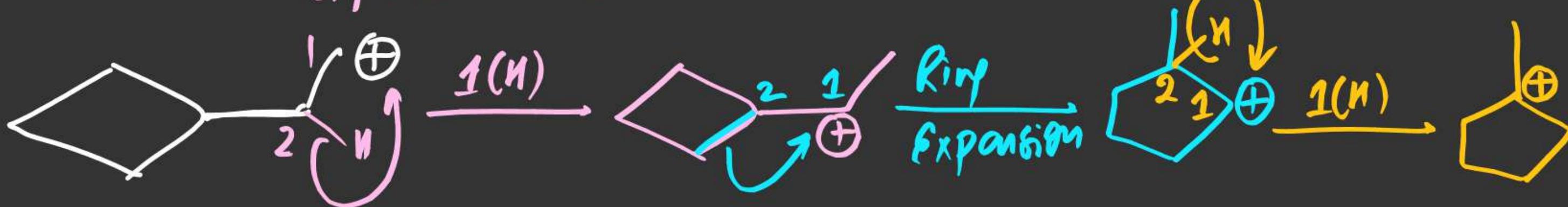




(25)



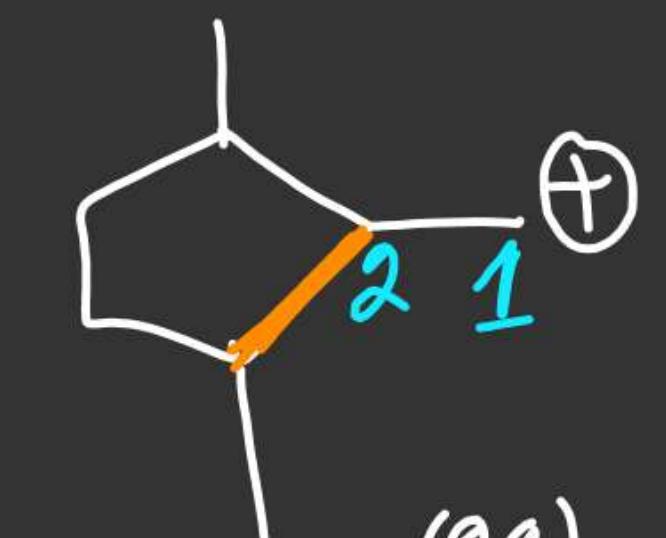
(26)



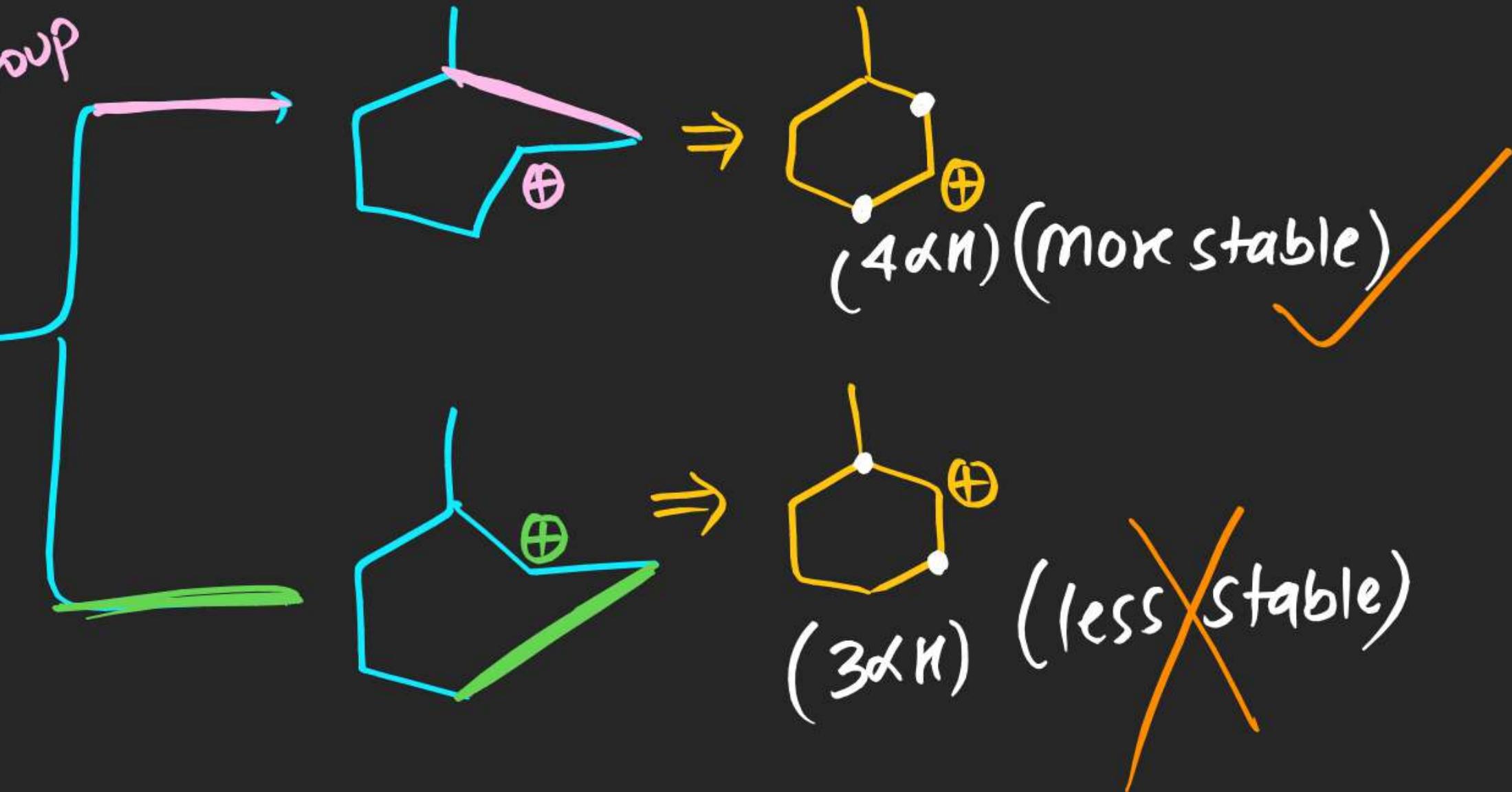
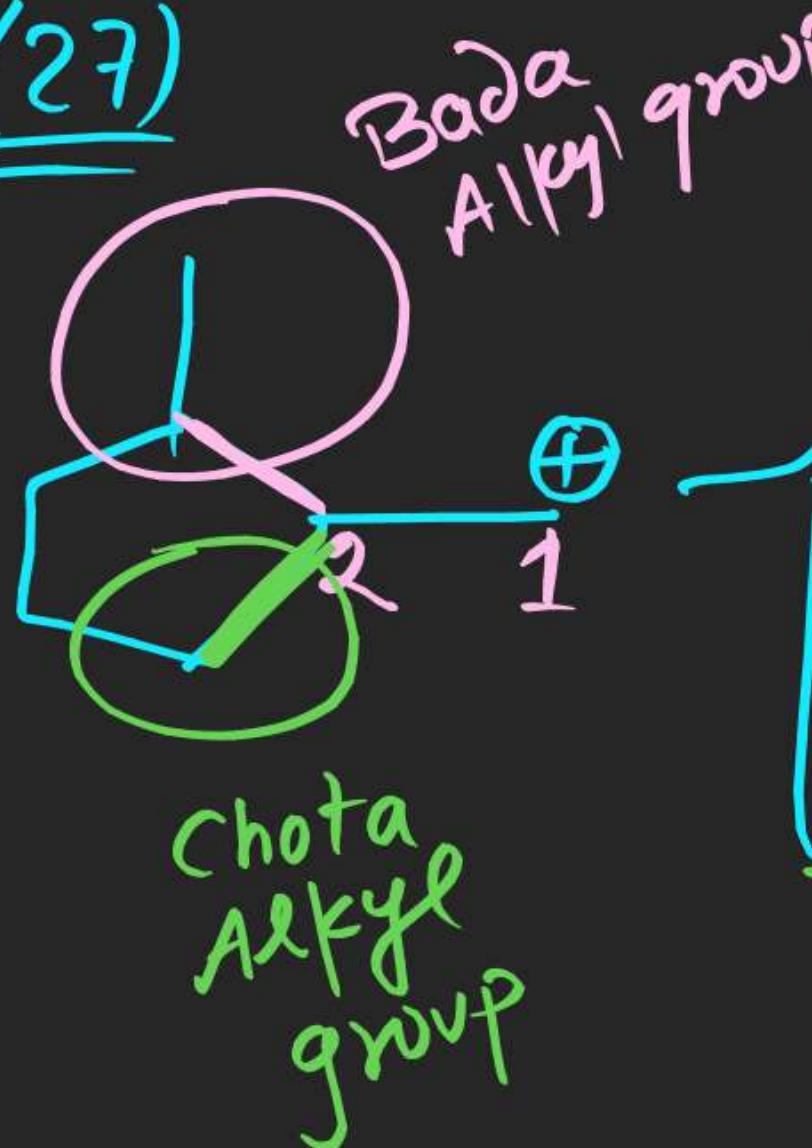
(27)

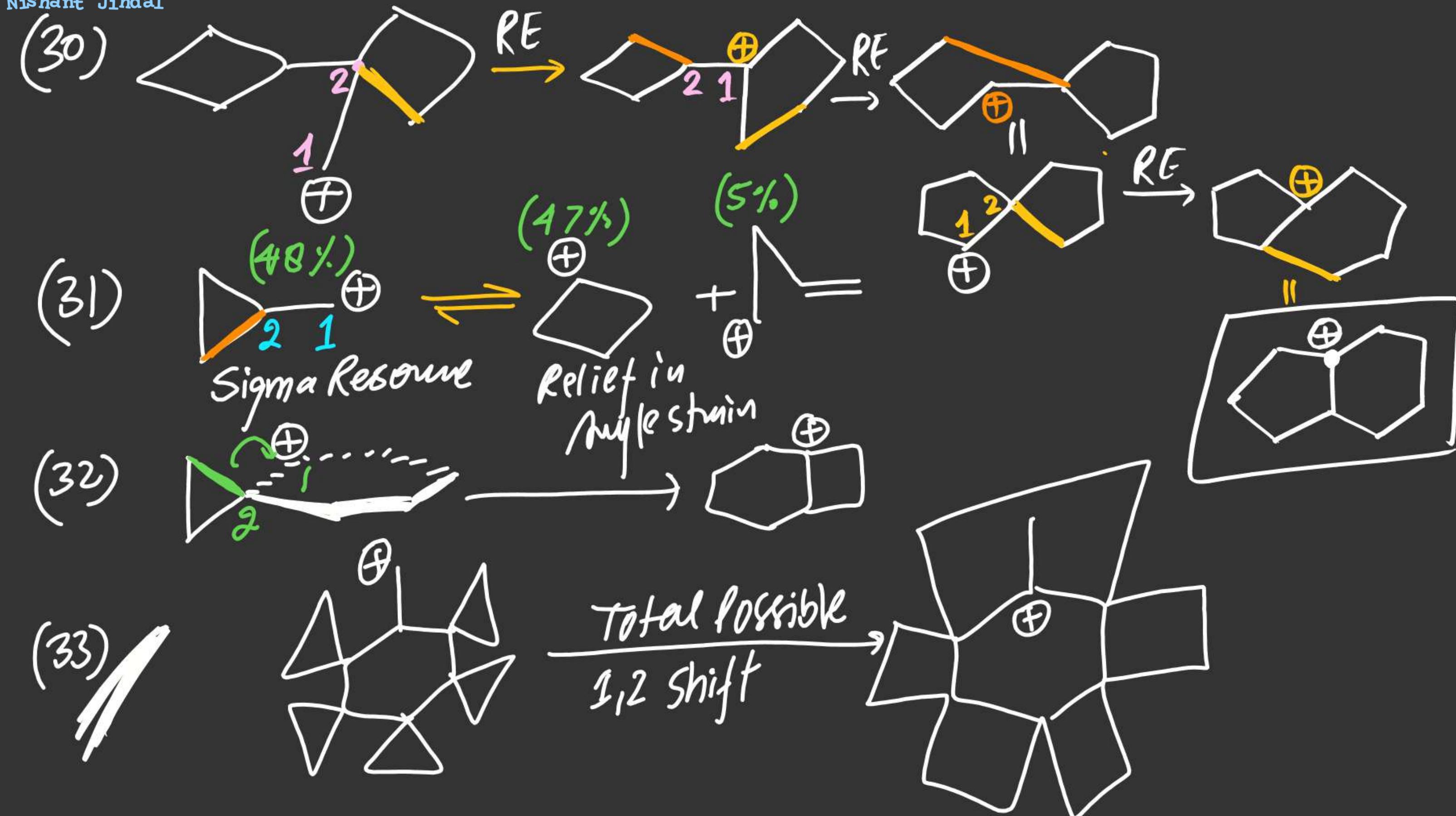


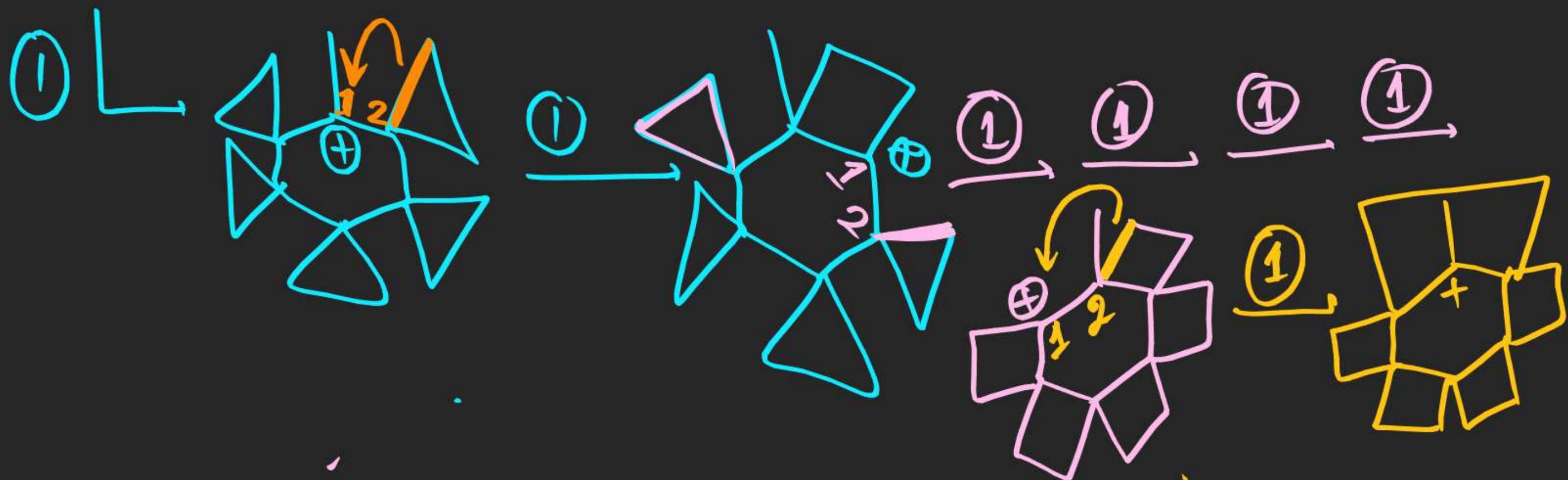
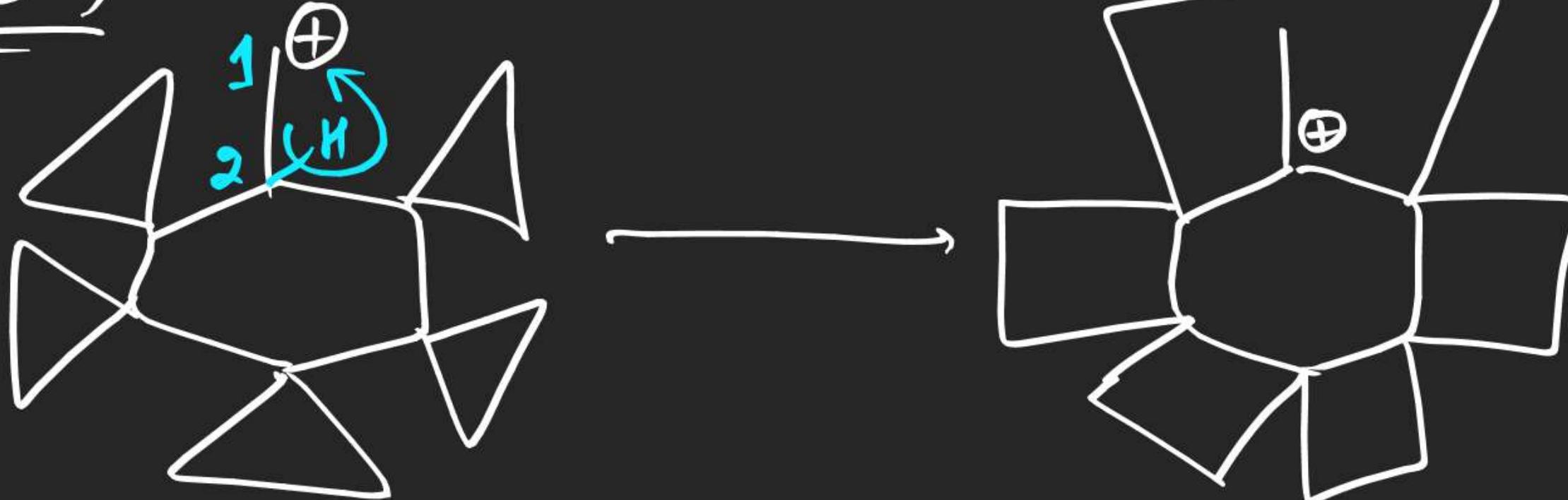
(28)



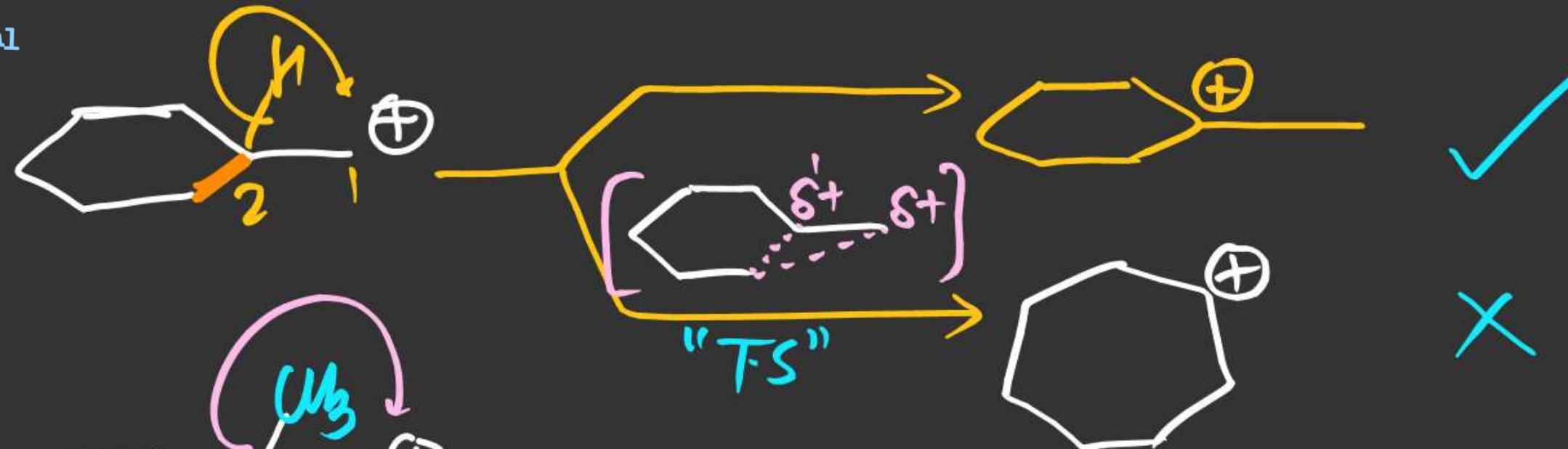
Q Shift

Sol<sup>n</sup>(27)

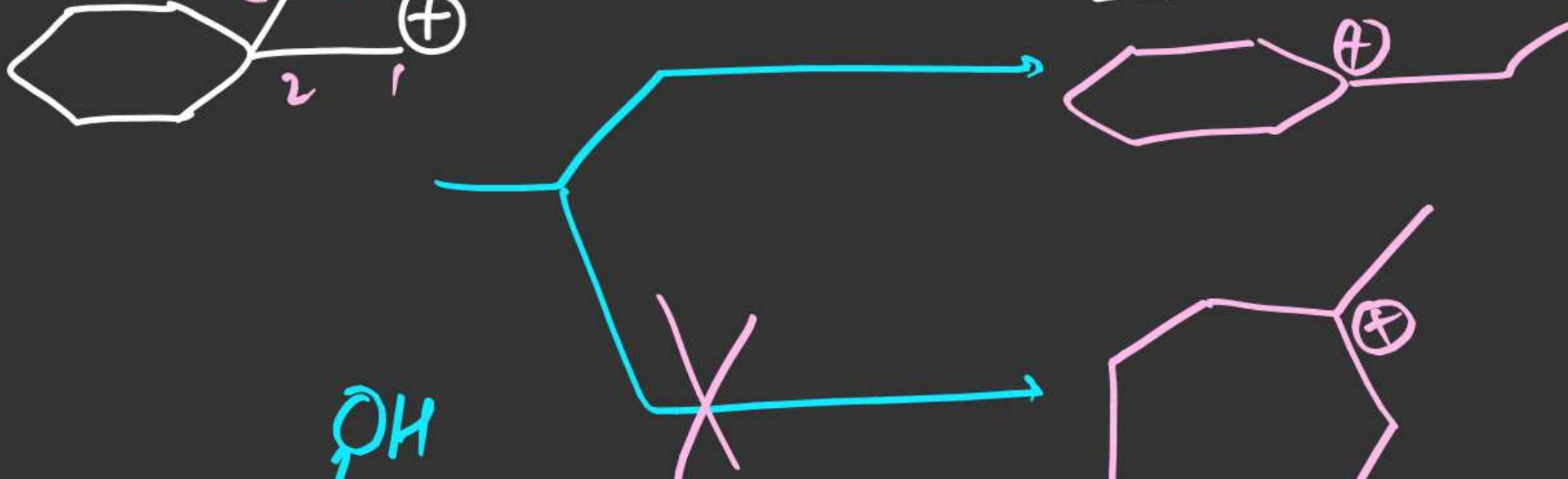


Sol<sup>n</sup>(33)

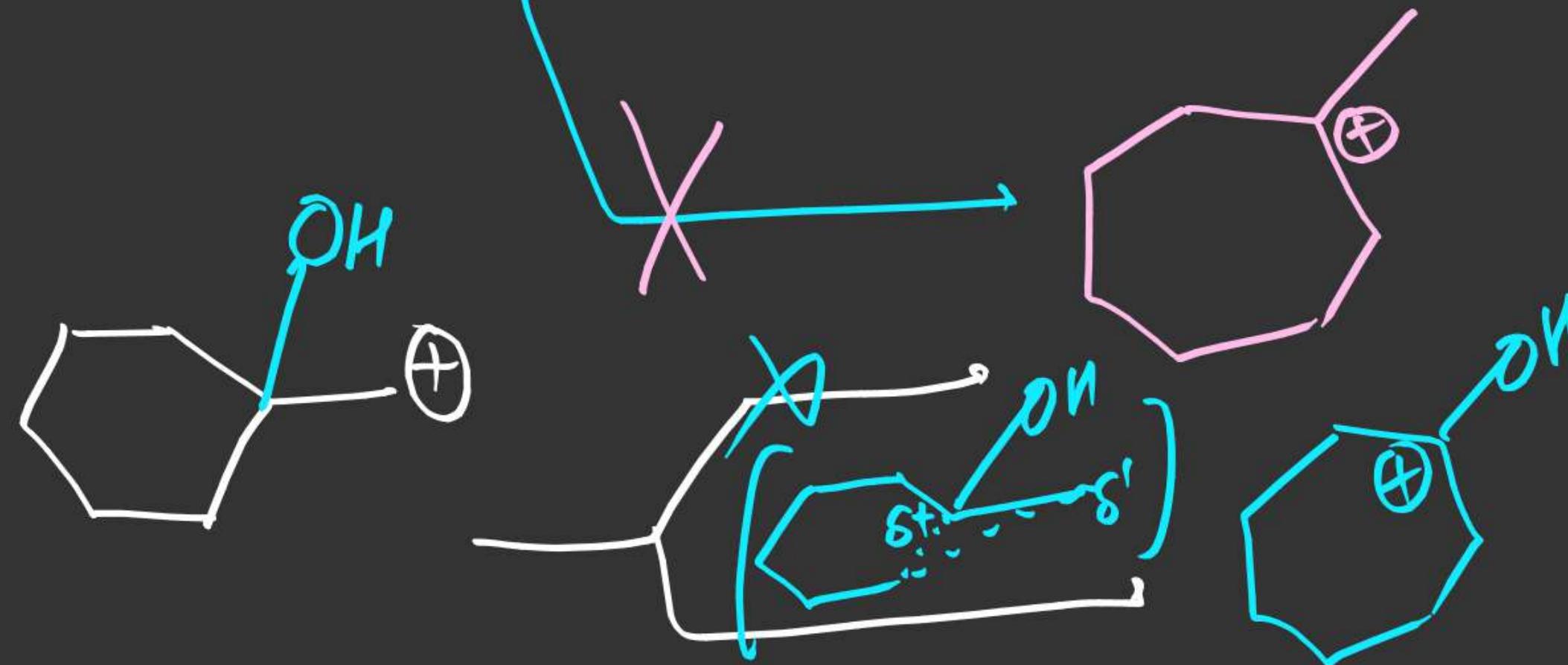
(34)

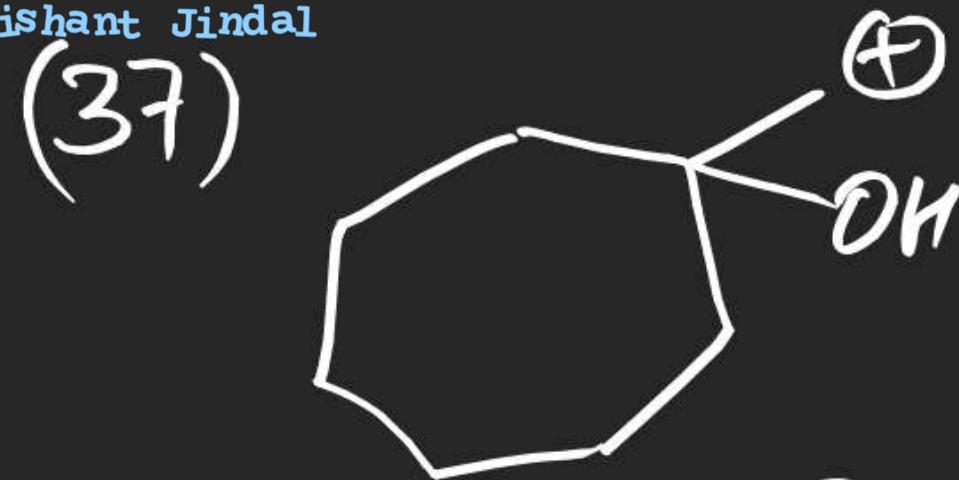


(35)

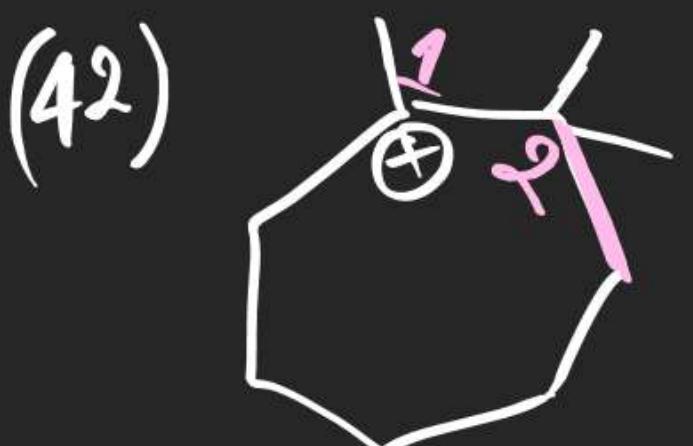
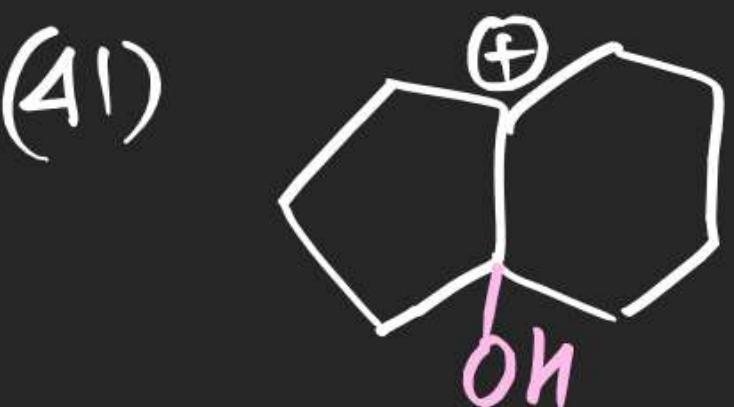
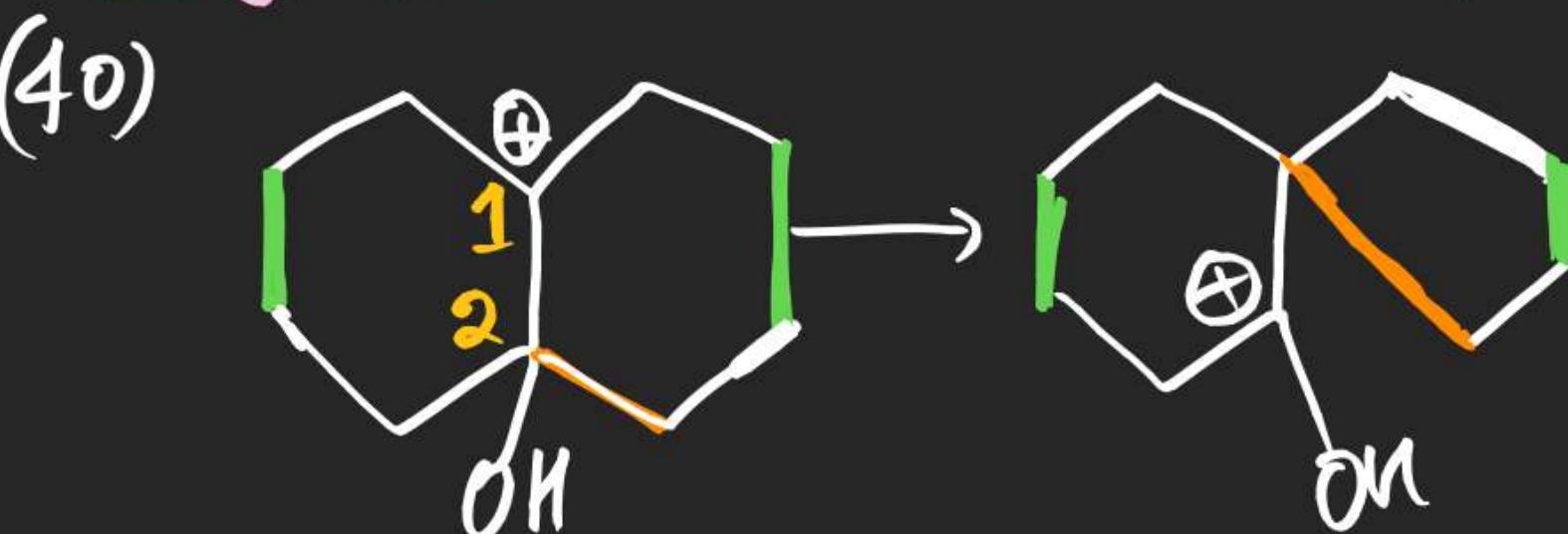


(36)

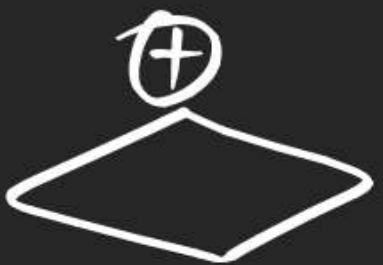




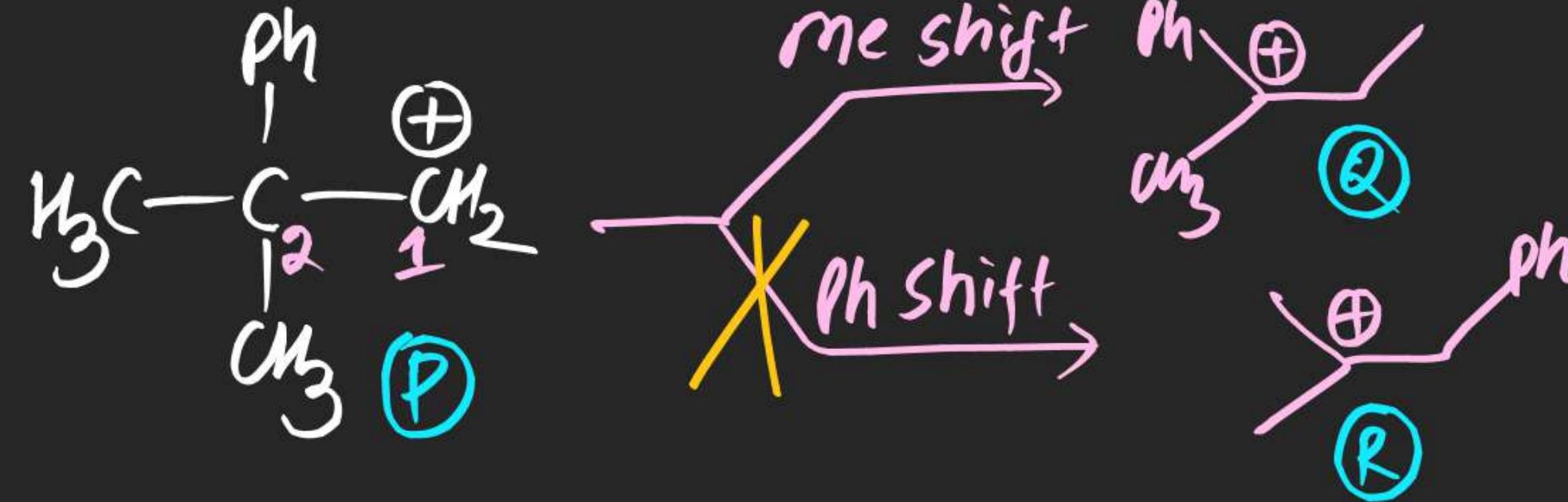
## Ring Contraction (1,2 shift)



(43)



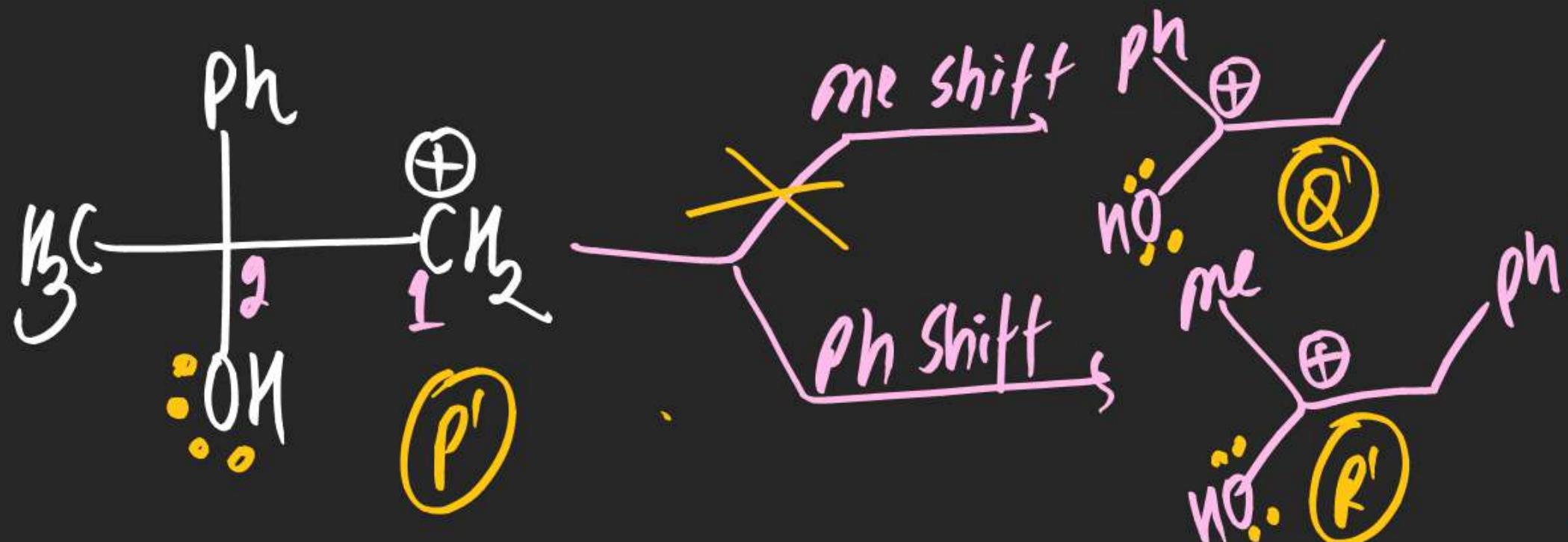
(44)

Stability order

$$\boxed{Q > R > P}$$

Try to obtain most stable cation

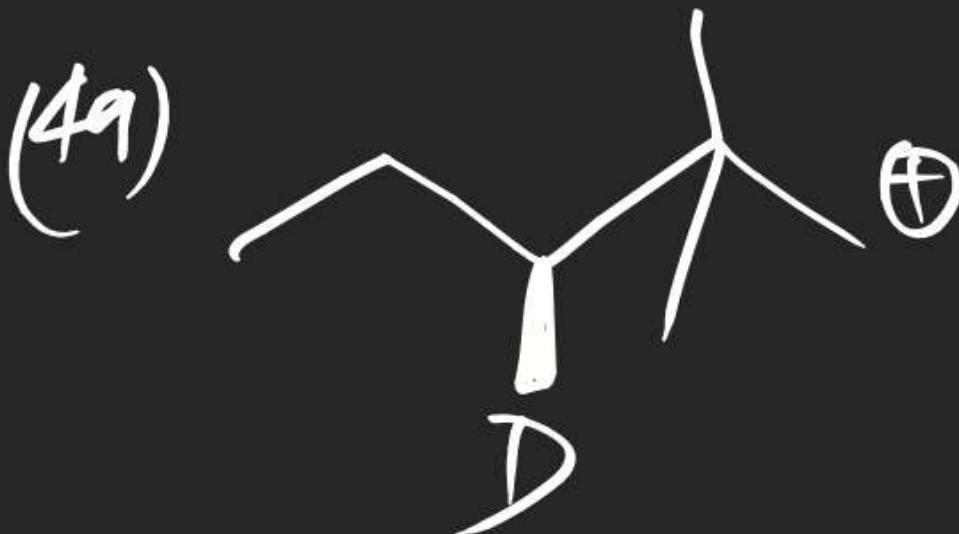
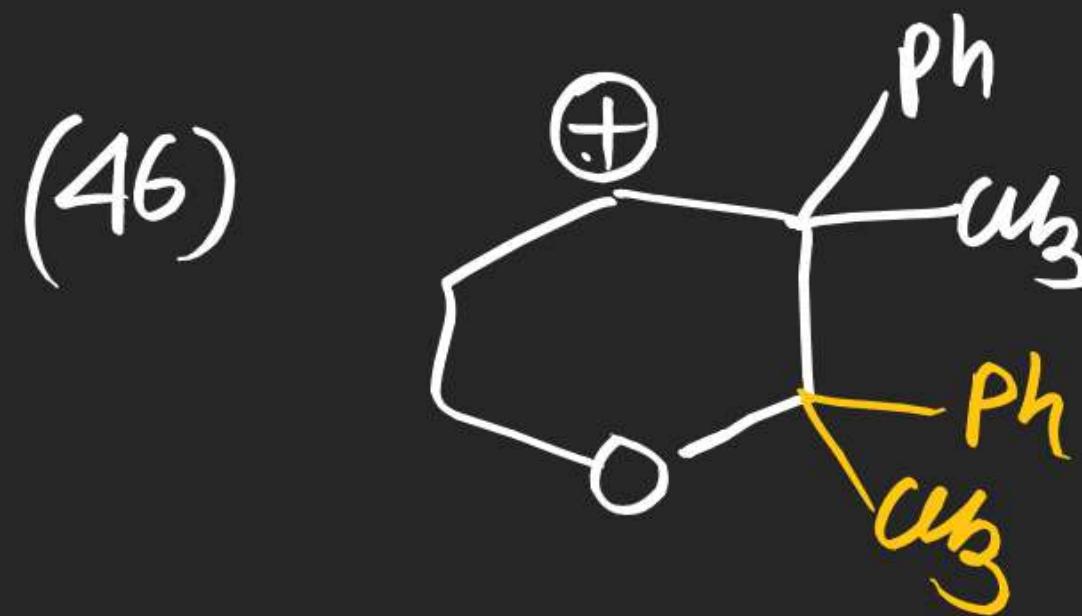
(45)



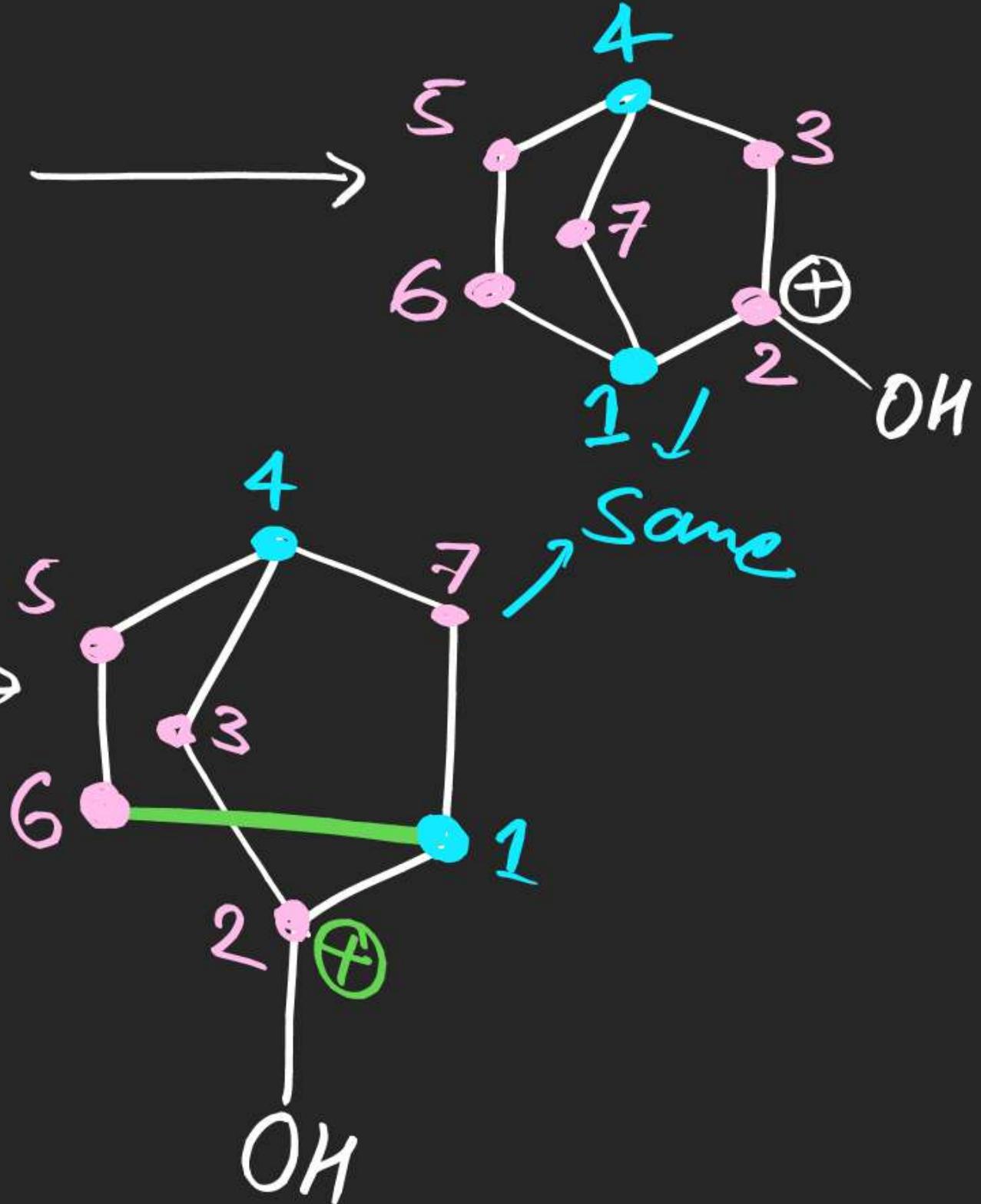
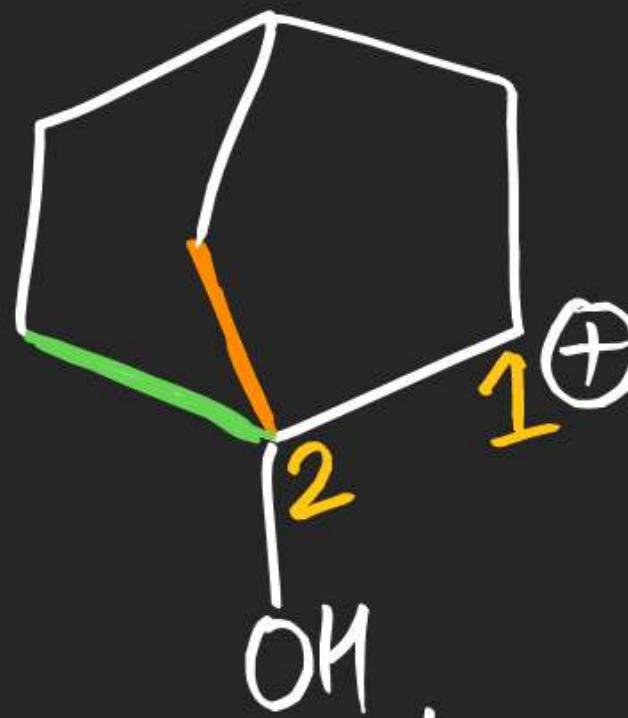
$$\boxed{Q' \approx R' > P'}$$

Follow migratory order

Note: when Cation is Back Bonding stabilised just after Recombination follow migratory order otherwise Try to obtain most stable Cation

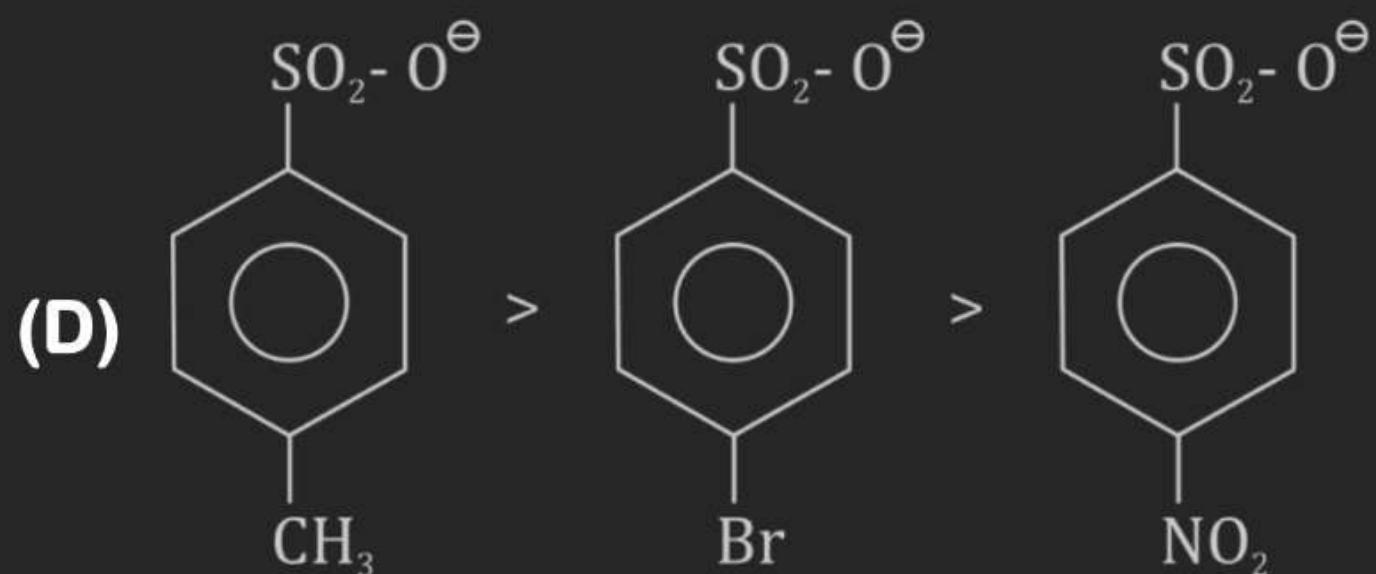
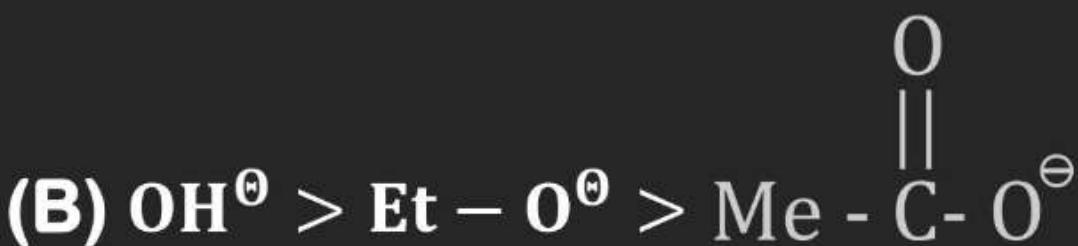


(50)

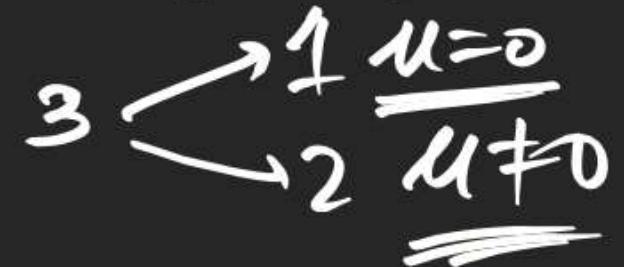
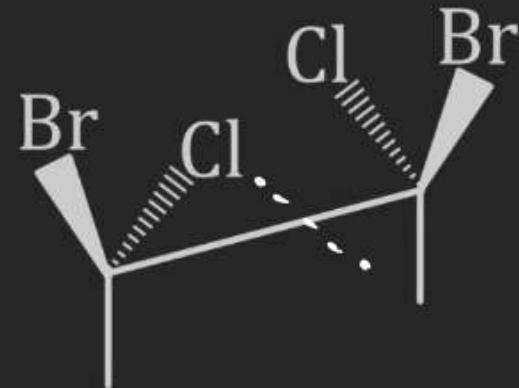


Test paper

**Q.63 Select correct order of leaving tendency of following groups**

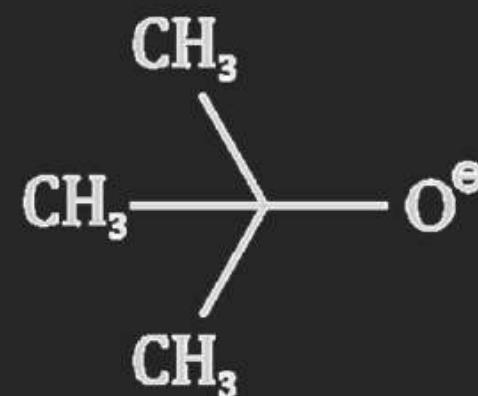
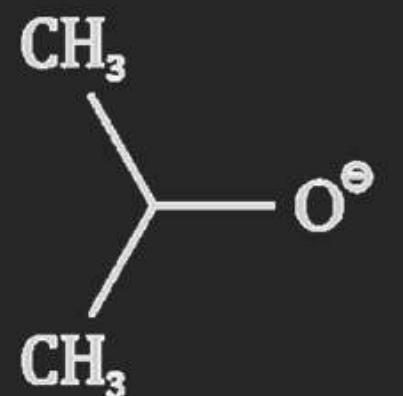
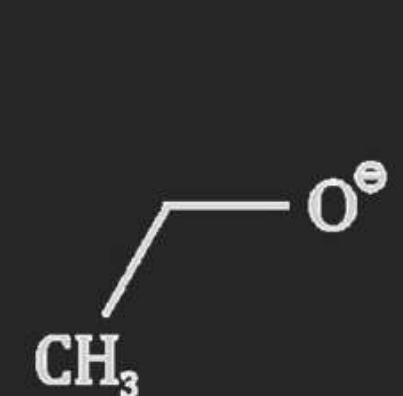


Q.66 Correct statement Regarding the following compound is



- In (A) Total stable conformer of this compound = 4 (3)
- C (B) One of the stable conformer of this compound has zero dipole moment.
- In (C) Total stable conformer with Non-zero dipole moment = 3
- C (D) The compound is (2R, 3S) 2,3 Dibromo 2,3 dichloro Butane.

Q.69 Arrange the following in decreasing order of Nucleophilicity  $\propto \frac{1}{\text{size}}$



(A) I > II > III

(II)

(III)

(C) I > III > II

(D) III > I > II

**Q.72 Which of the following cannot act as nucleophile?**

- (A)  $\text{H}_2\text{O}$       (B)  $\text{R} - \text{OH}$       (C)  $\text{BH}_3$       (D) But-2-ene

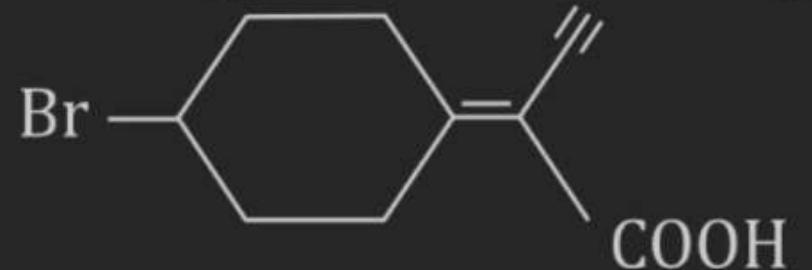
Alv

Alv

Electrophile

Alv

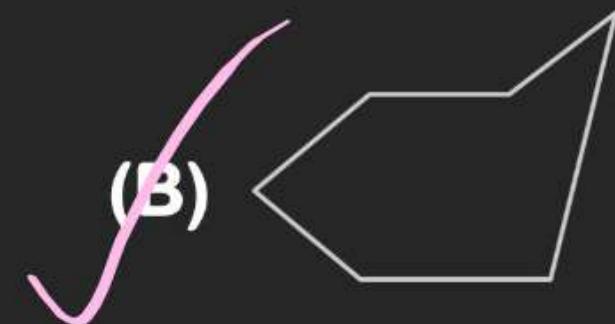
**Q.75 The correct designations for the given structure is:-**



- (A) Z, E      (B) E, E      (C) E, Z      (D) None of these

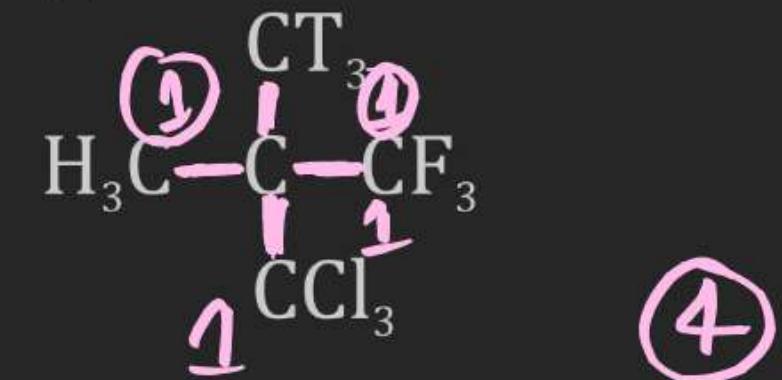


**Q.78 Which of the following conformer of cyclohexane is least stable.**



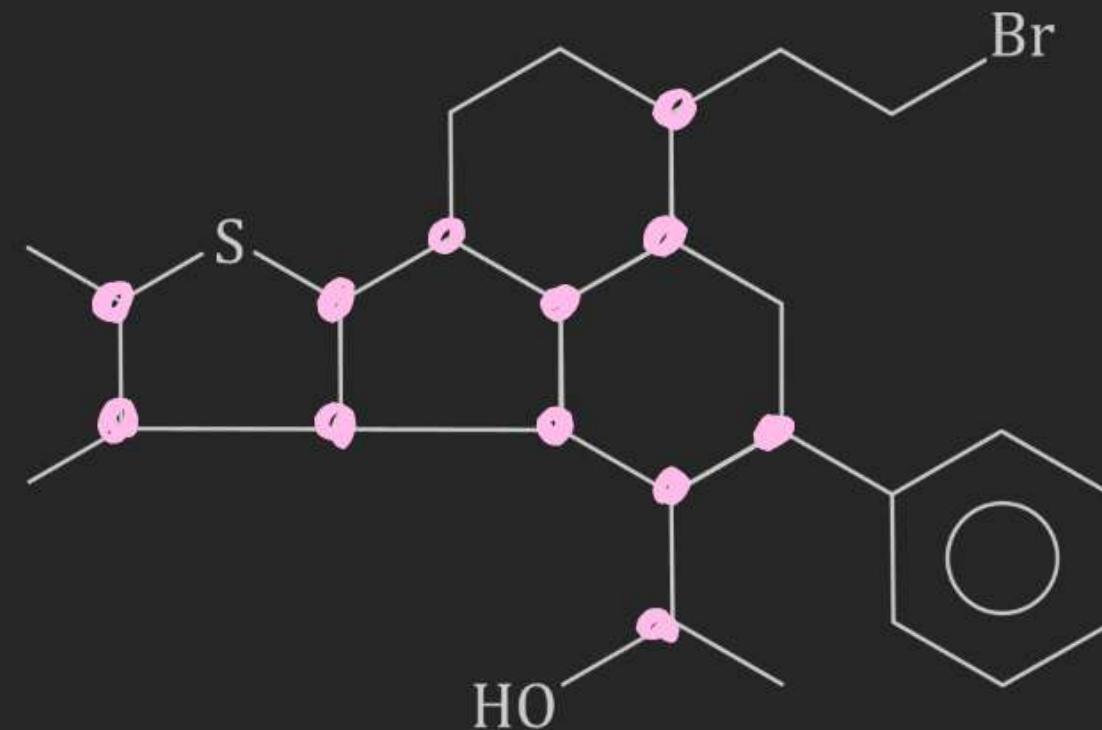
D > C > A >

**Q.83 Consider all type C – C bond rotation in following molecule**

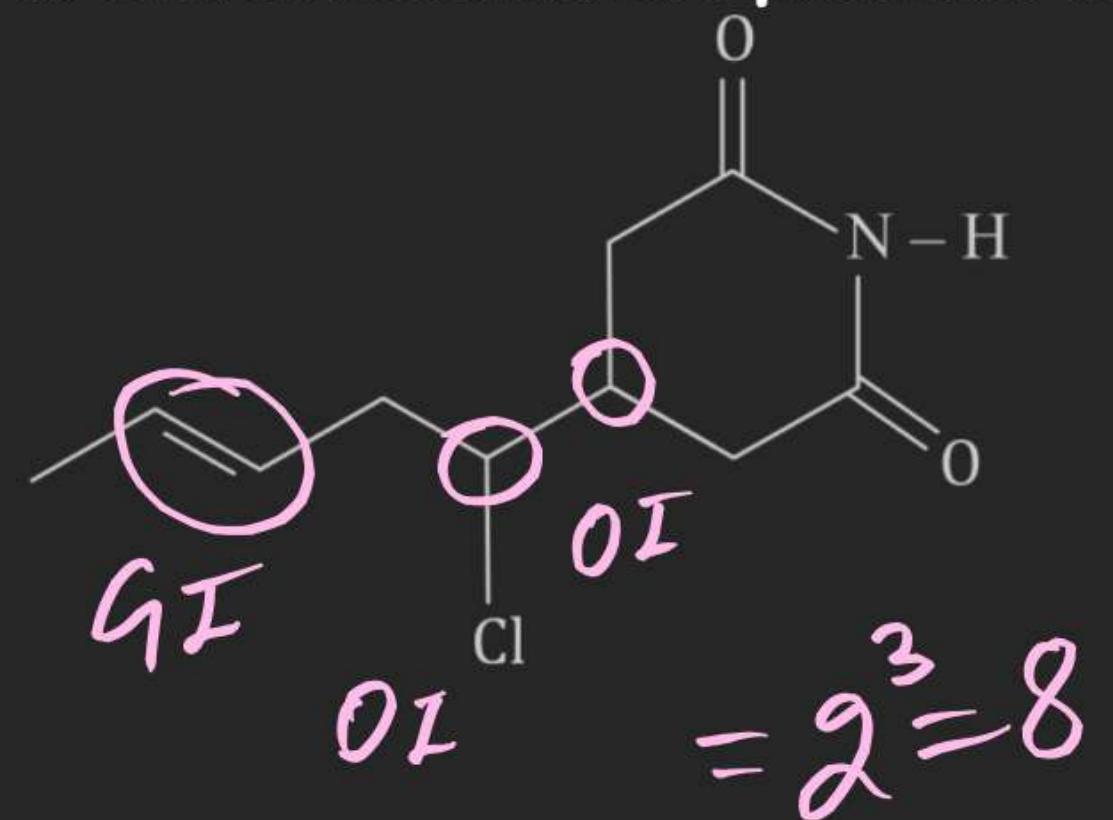


**How many number of different type of eclipsed conformations are possible?**

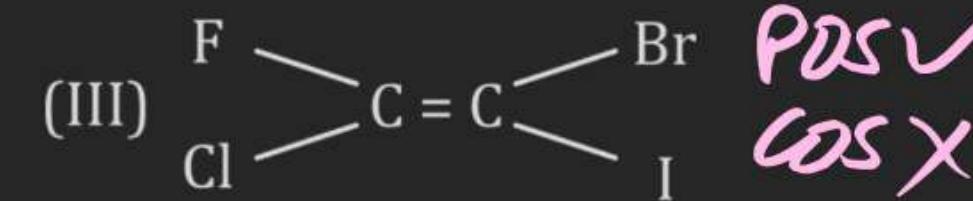
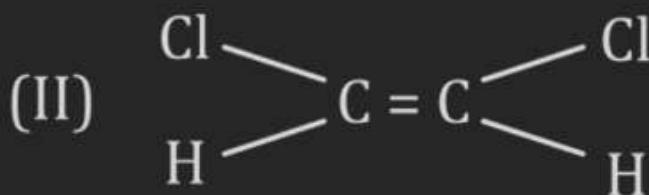
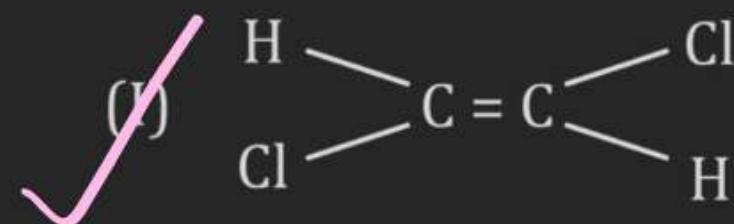
**Q.86** Number of chiral atoms in the given organic compound is \_\_\_\_\_.



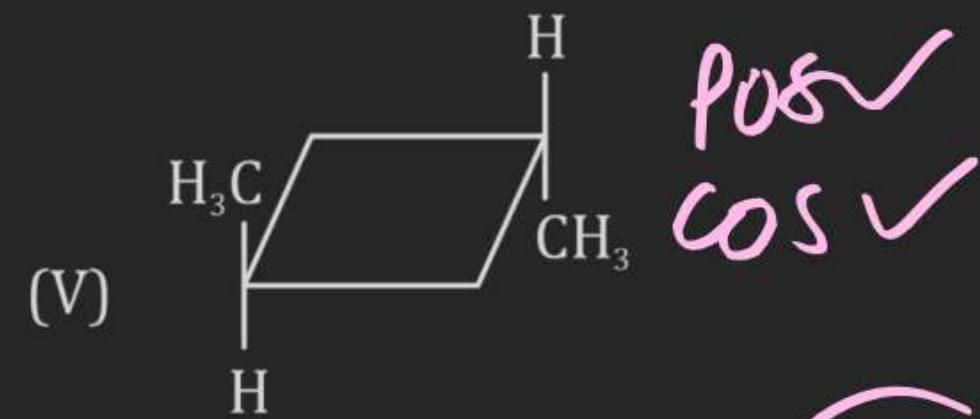
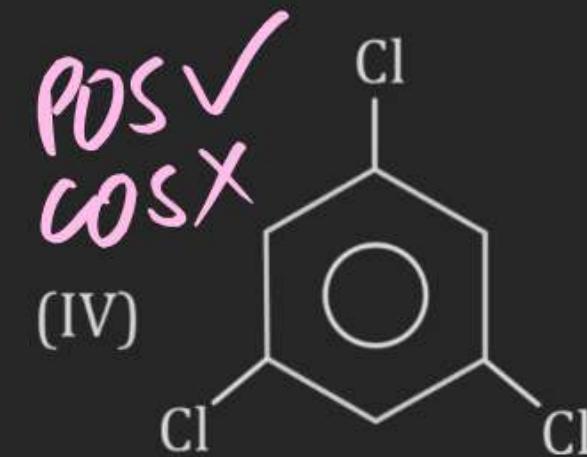
Q.88 Total number of stereoisomers are possible for the given compound is:



**Q.90 Total number of compounds which can show both plane of symmetry and centre of symmetry are.**



*POS✓ COSX*



*POS✓  
COS✓*

2