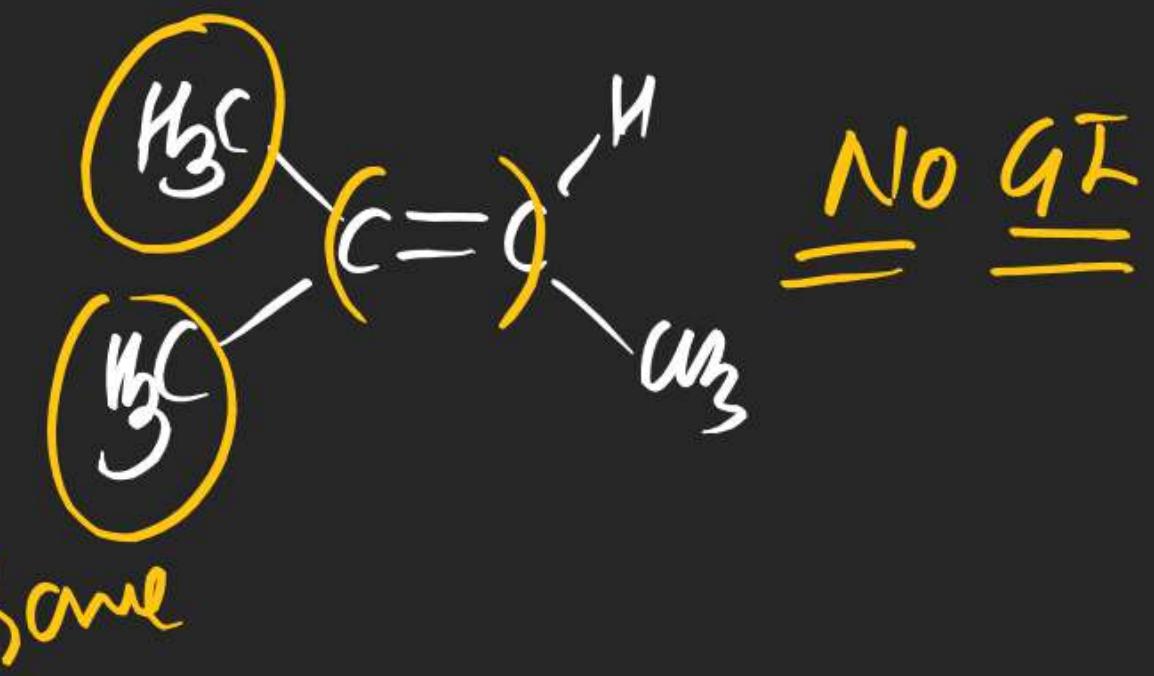


# STEREOISOMERISM

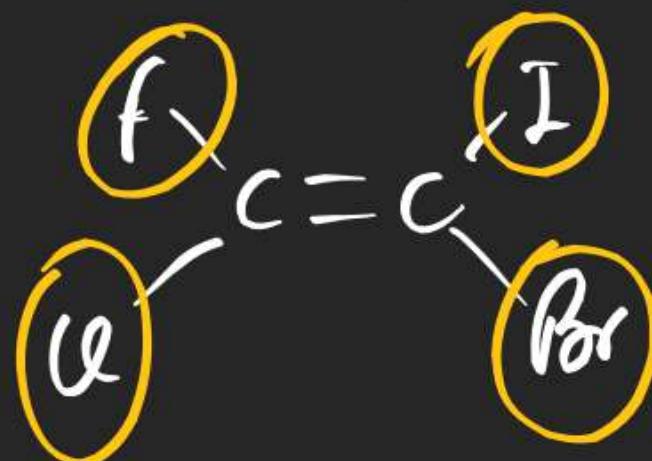
HW Discussion (GI Theory copy)

② No

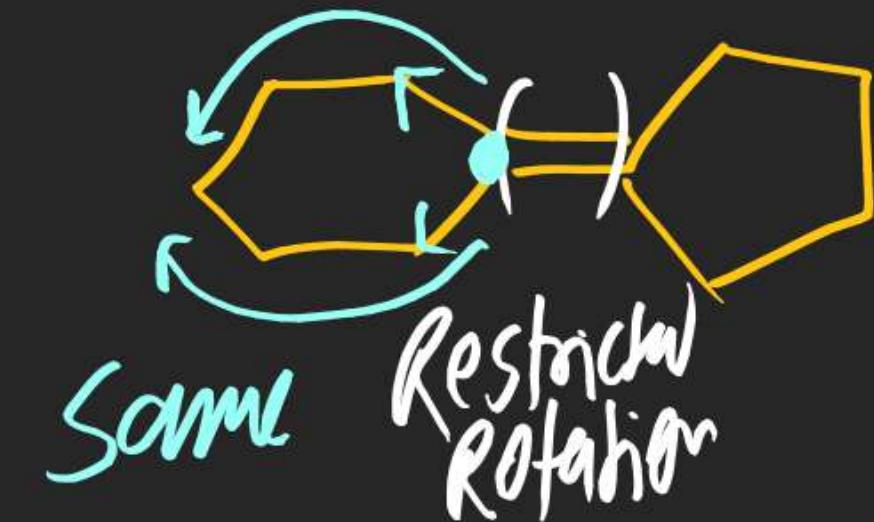
2-methyl-But-2-ene

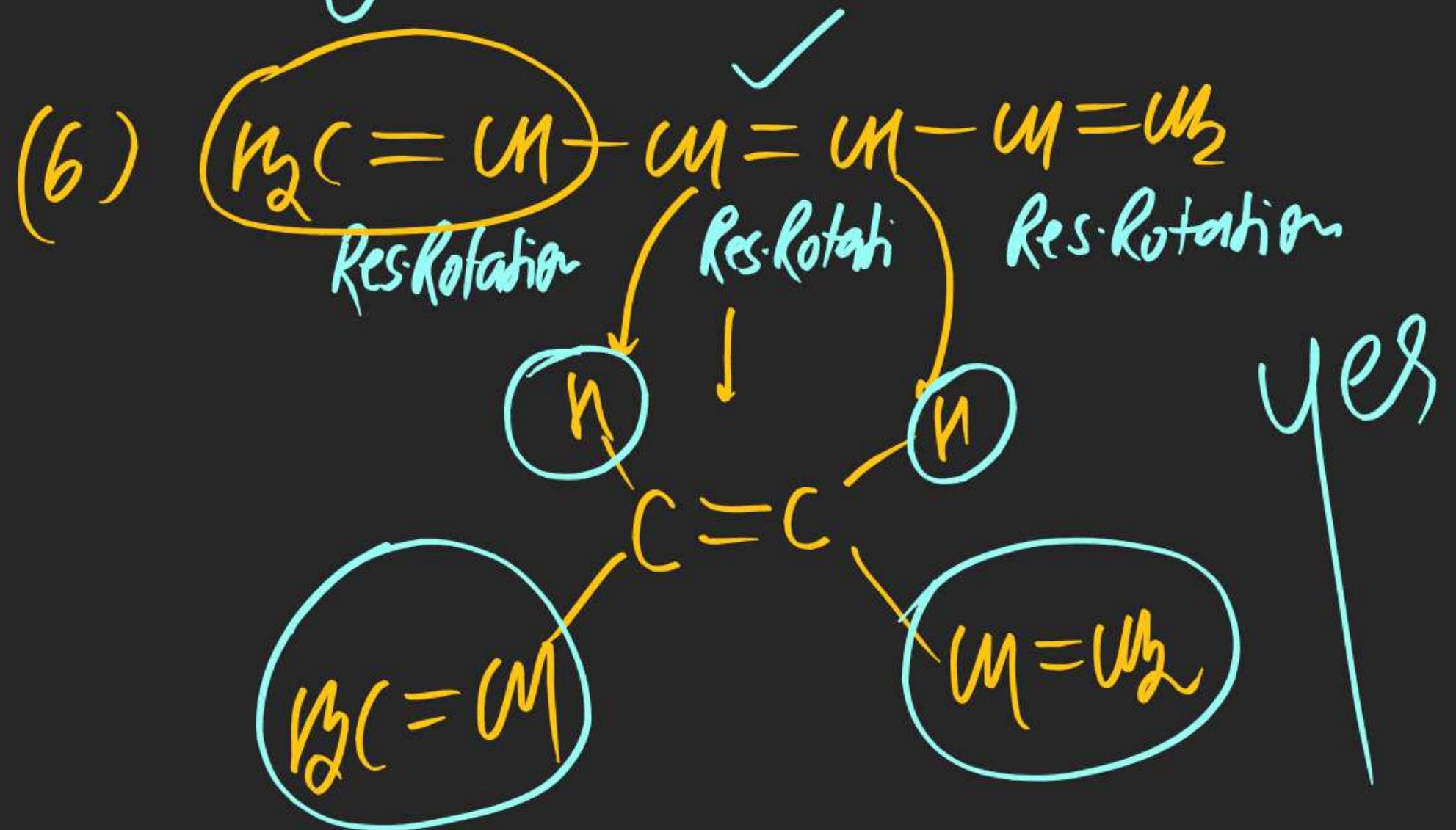
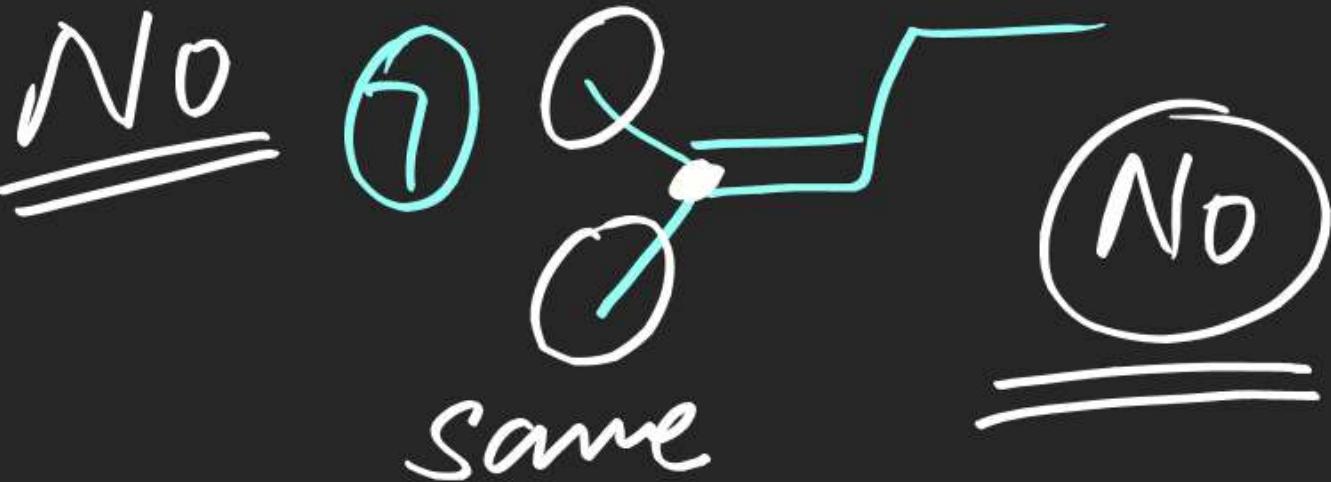
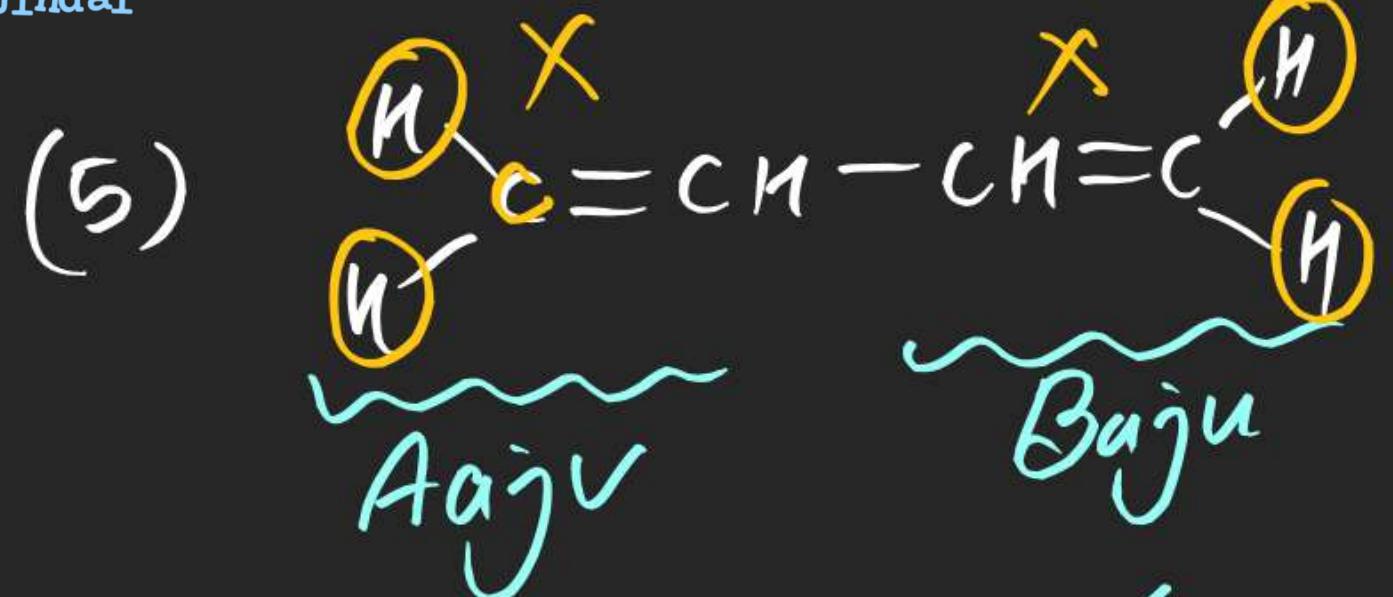


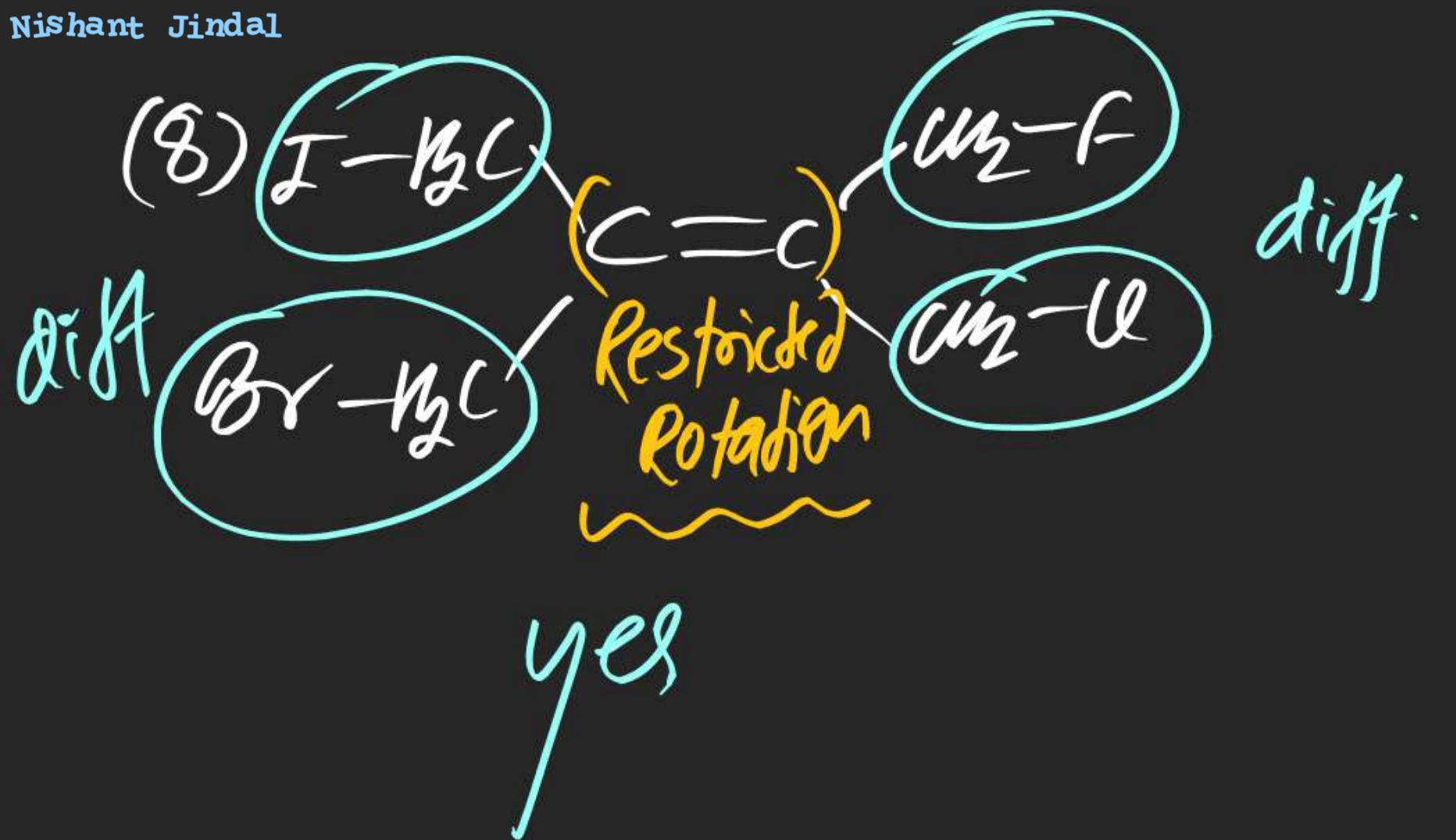
③ Yes

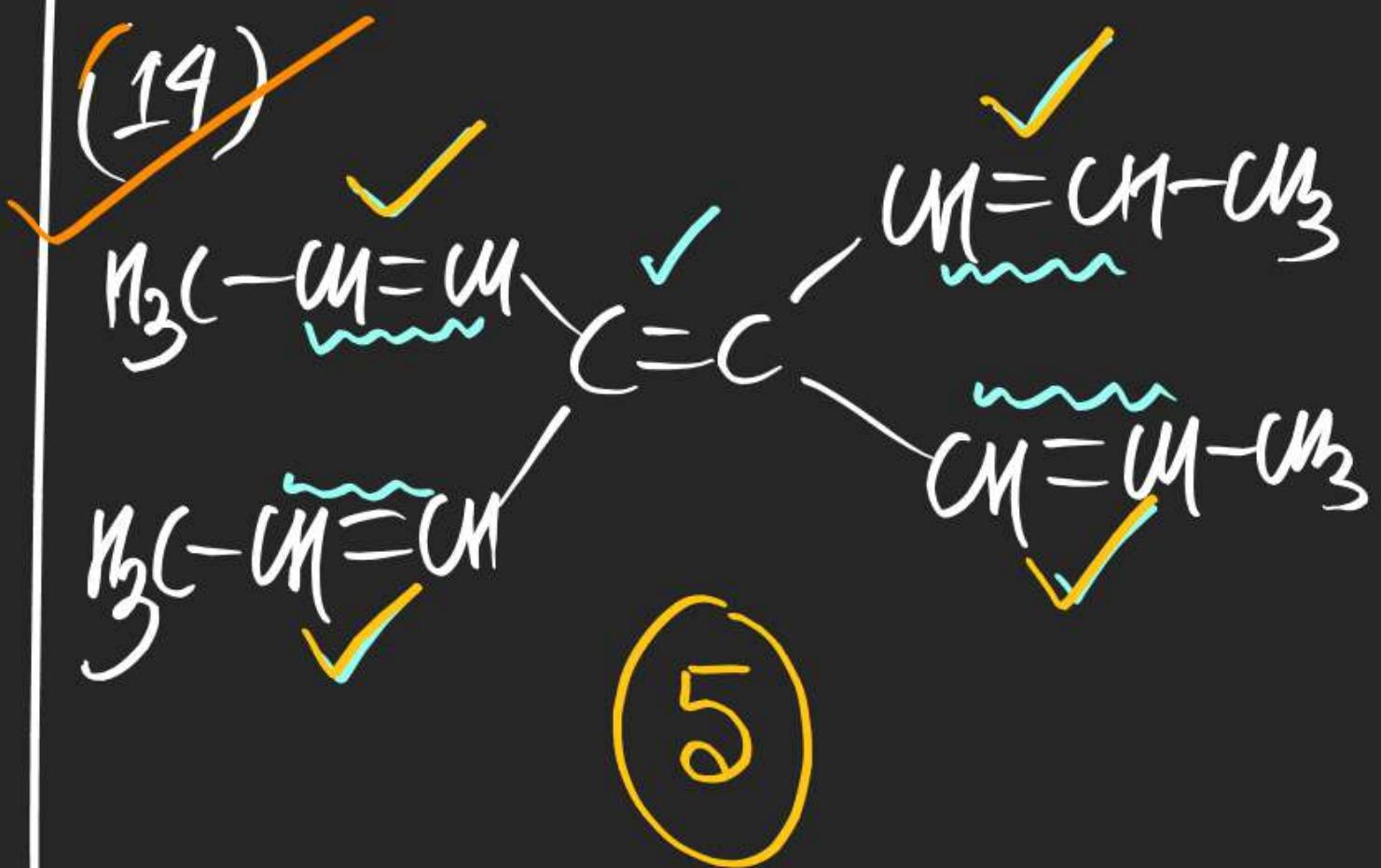
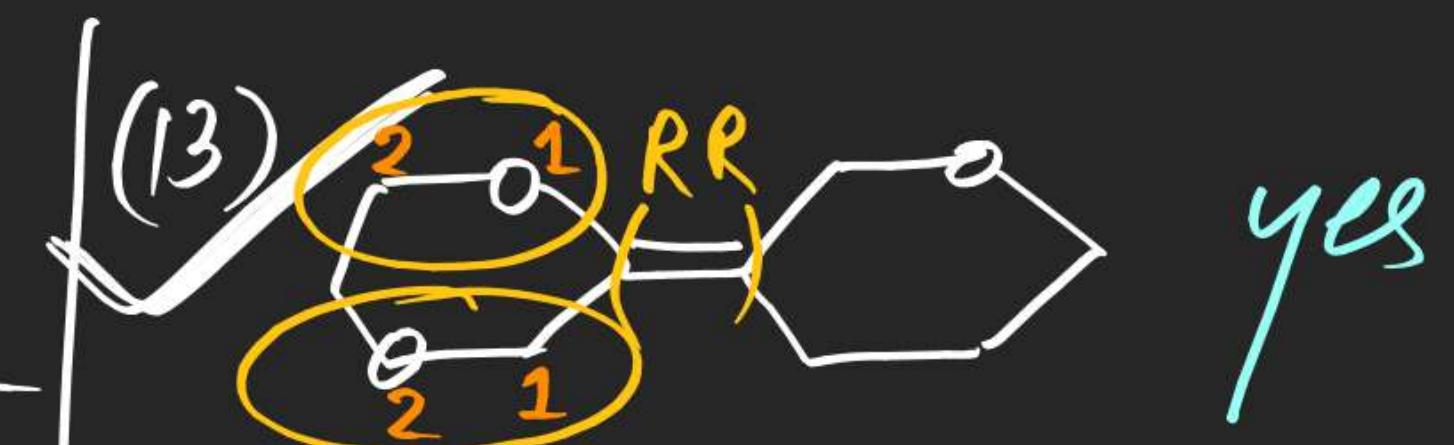
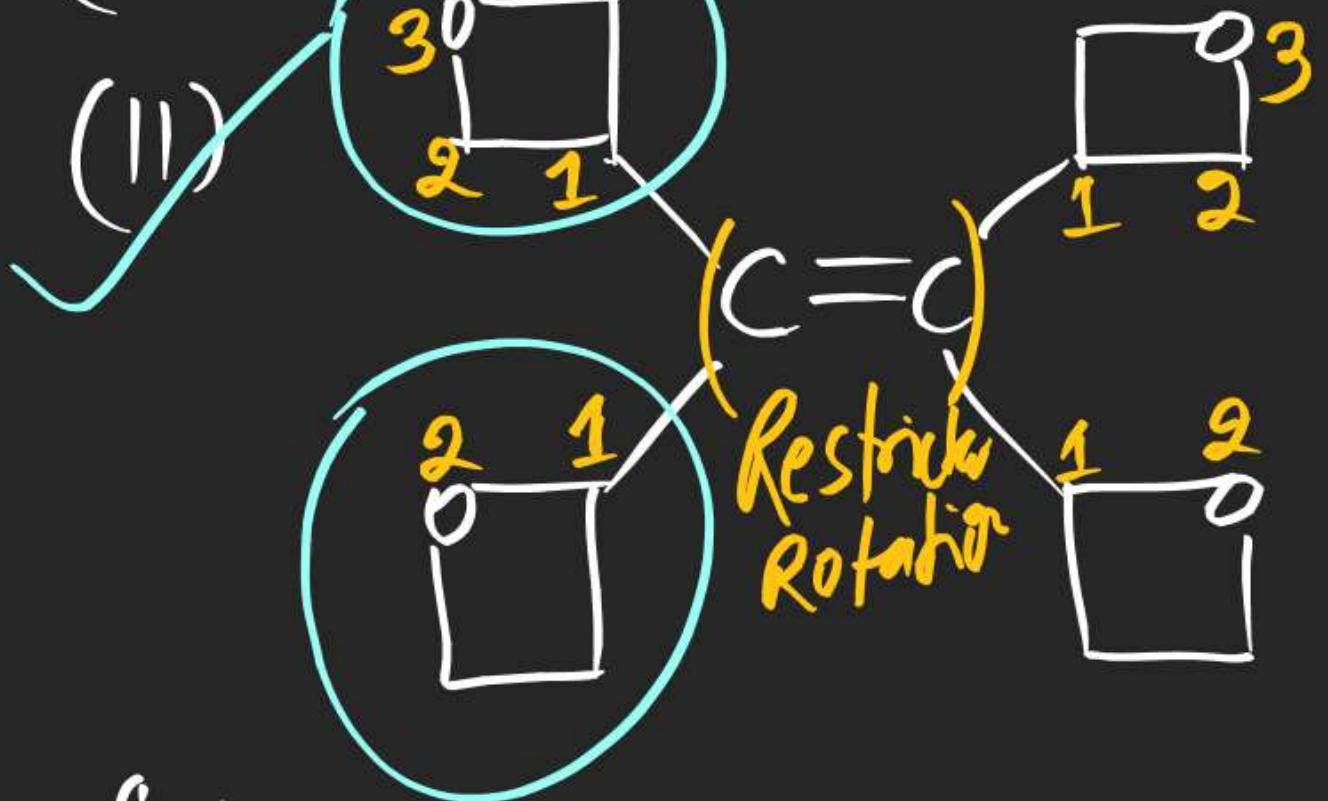
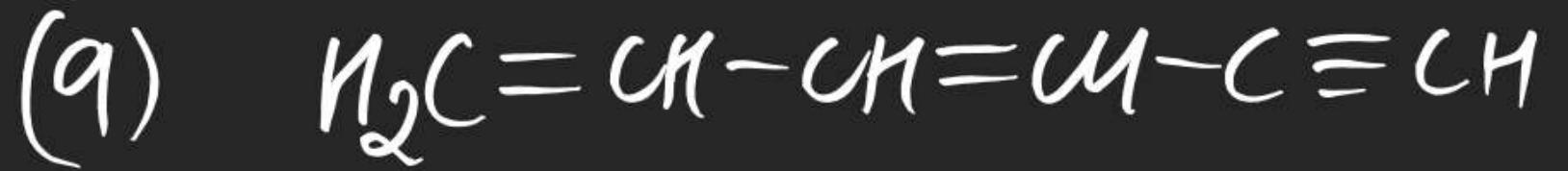


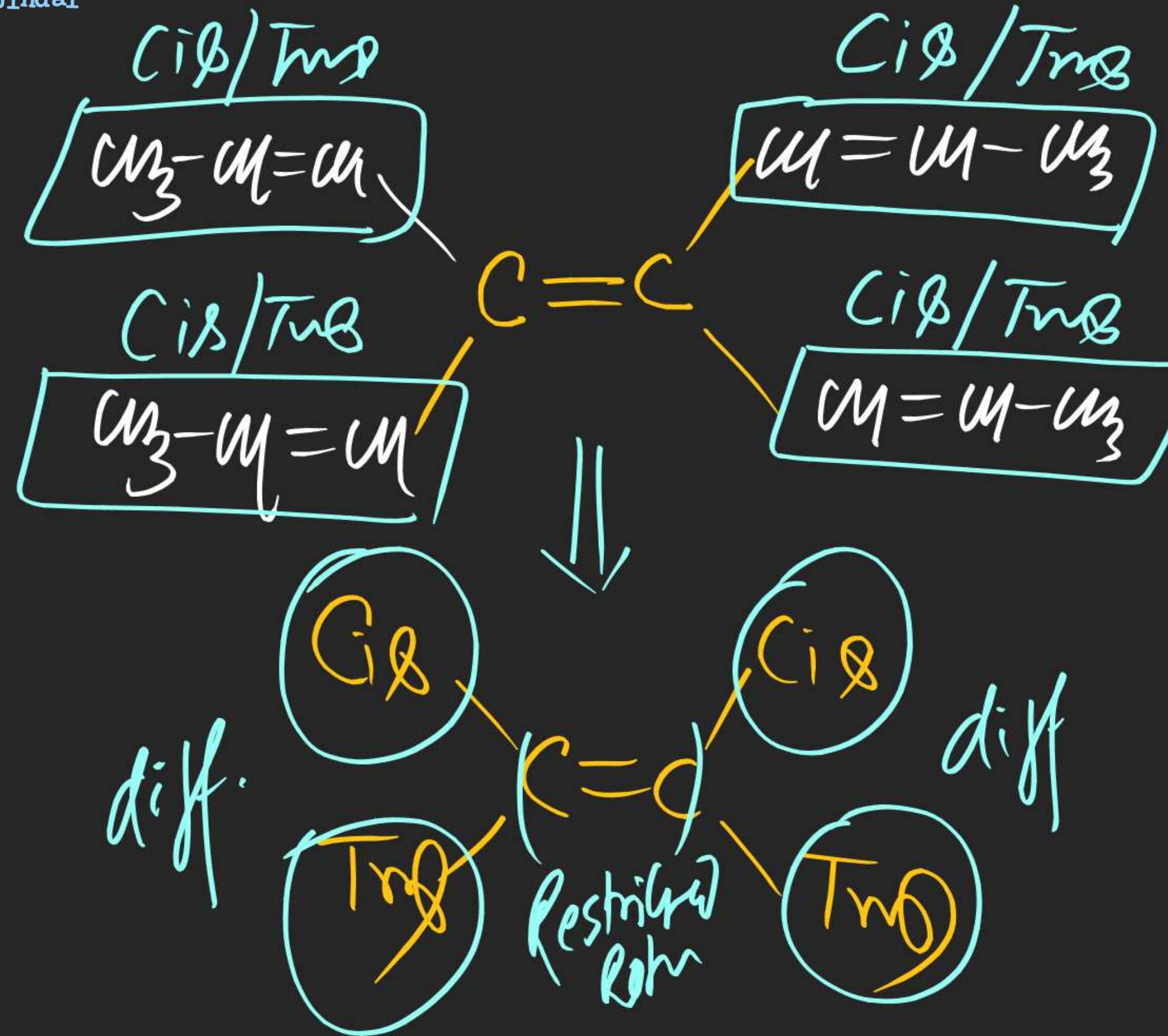
(4) No





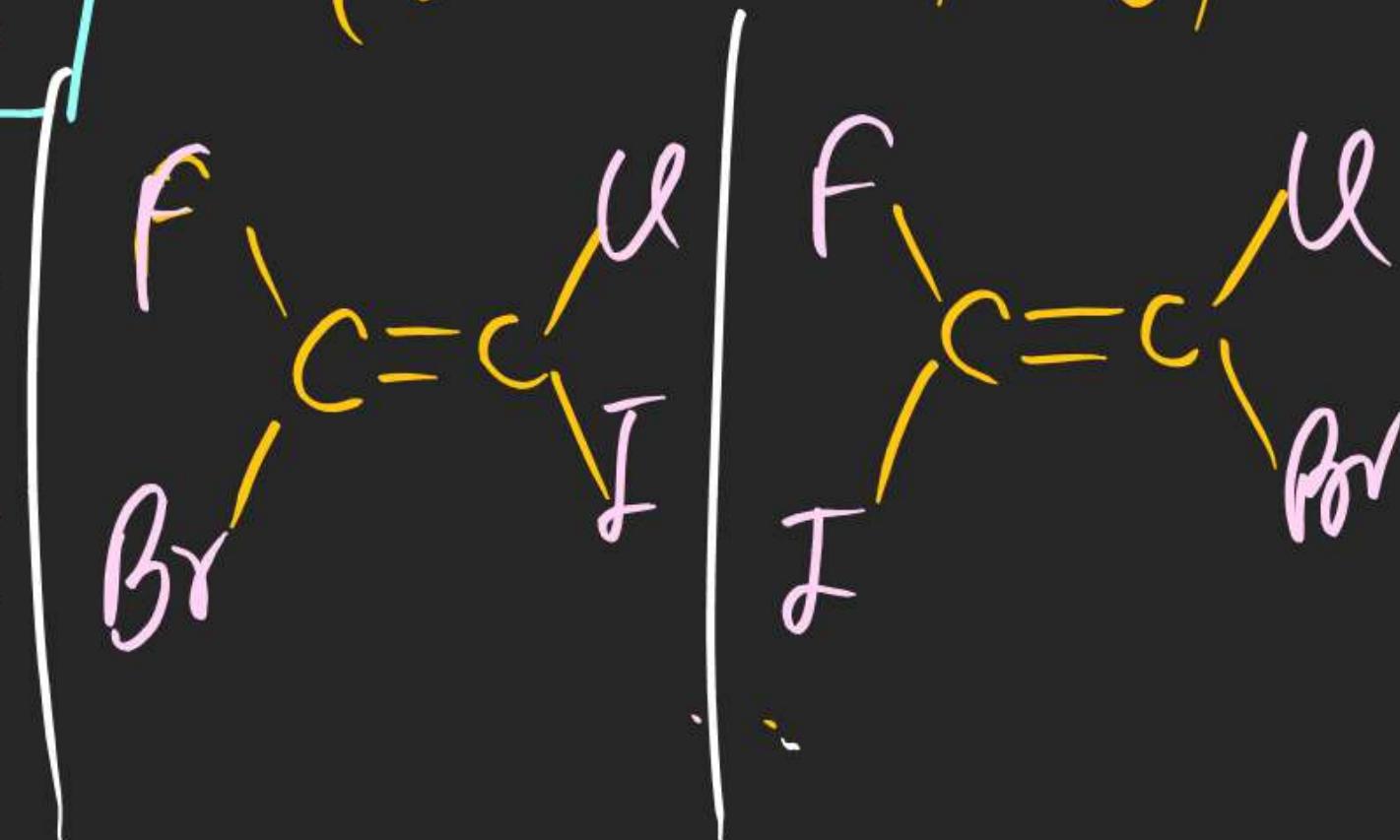




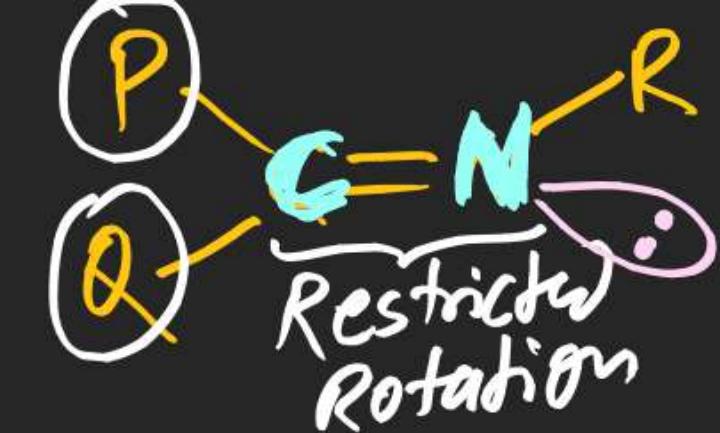


# STEREOISOMERISM

(15) Find Total no. of structural isomers which can show GI & having molecular formula.



(16) GI in



$$P \neq Q$$

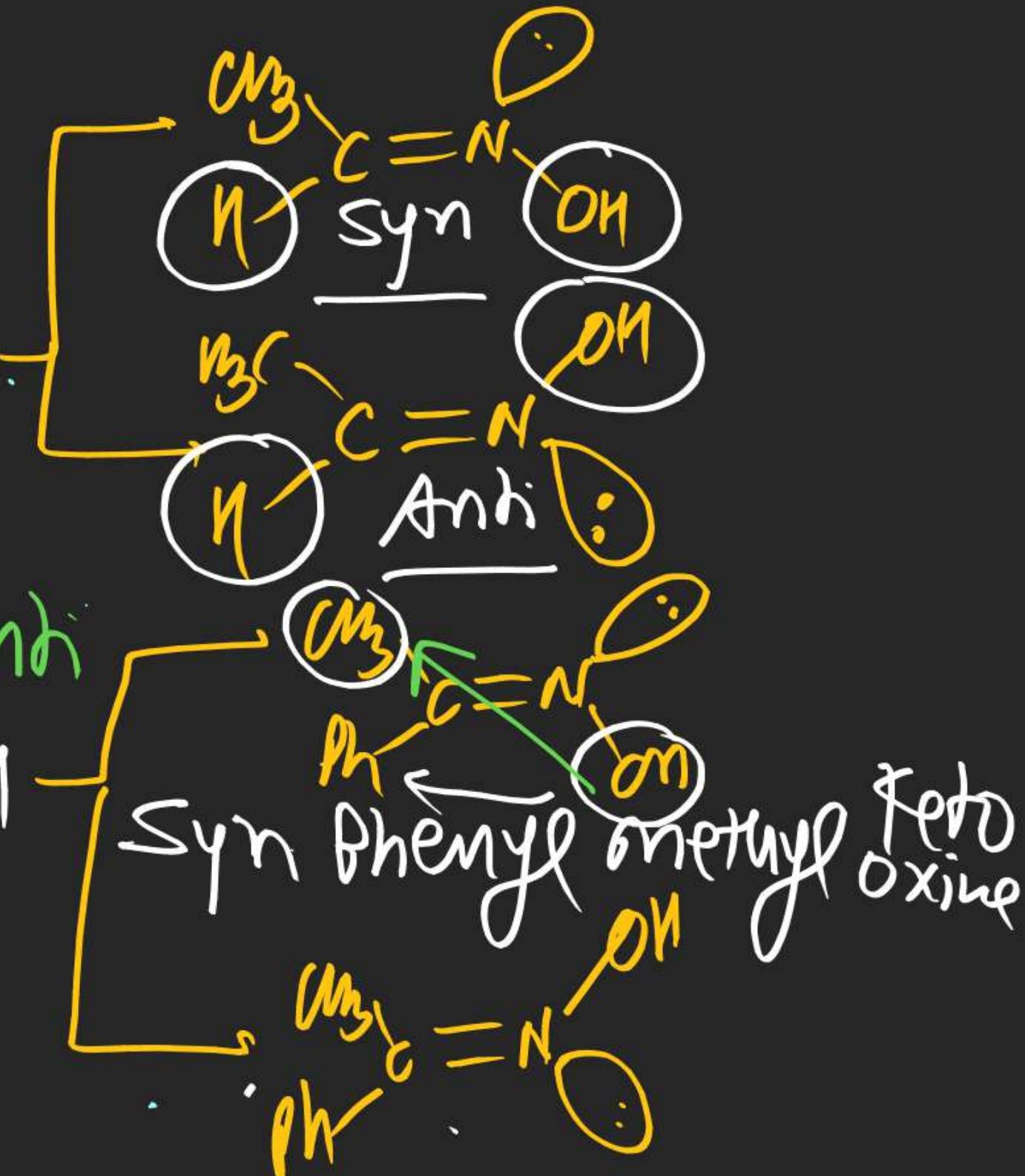
$$\begin{array}{l} A = A \\ A = B \end{array}$$

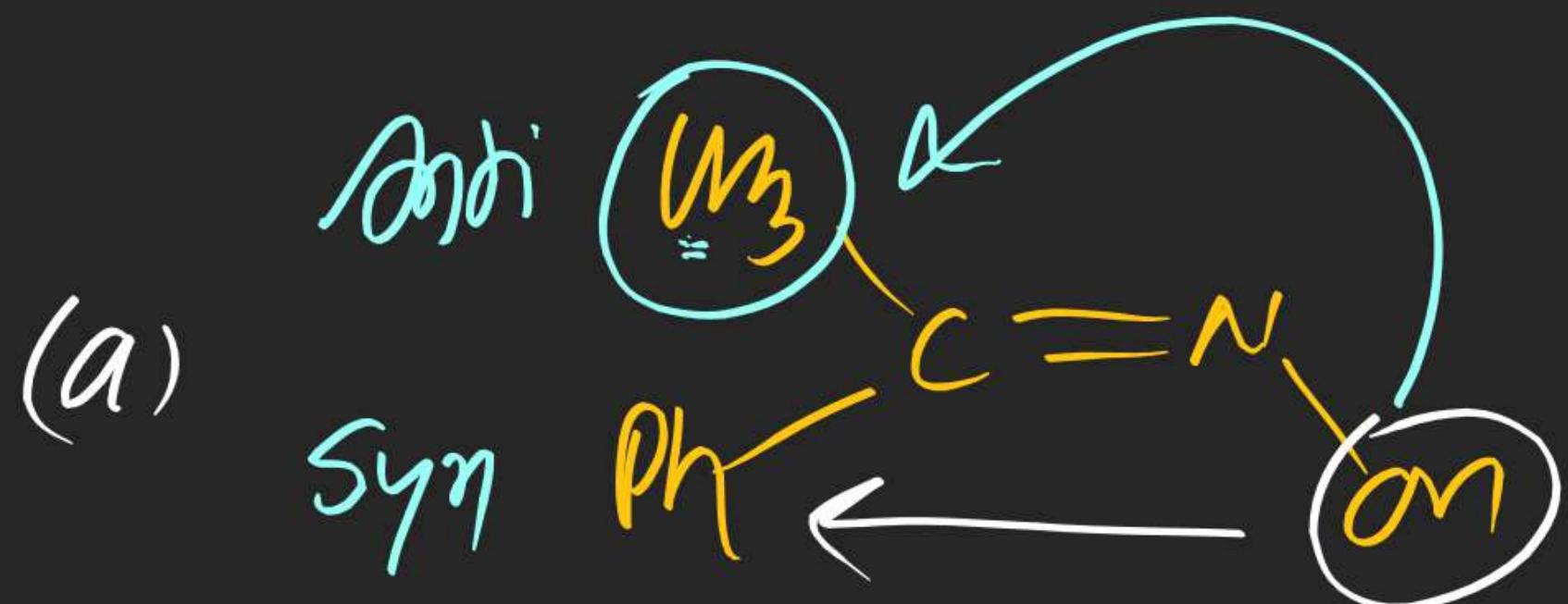
$GI \Rightarrow$  Cis / Trans  
 $GI \Rightarrow$  Syn / Anti

(16)

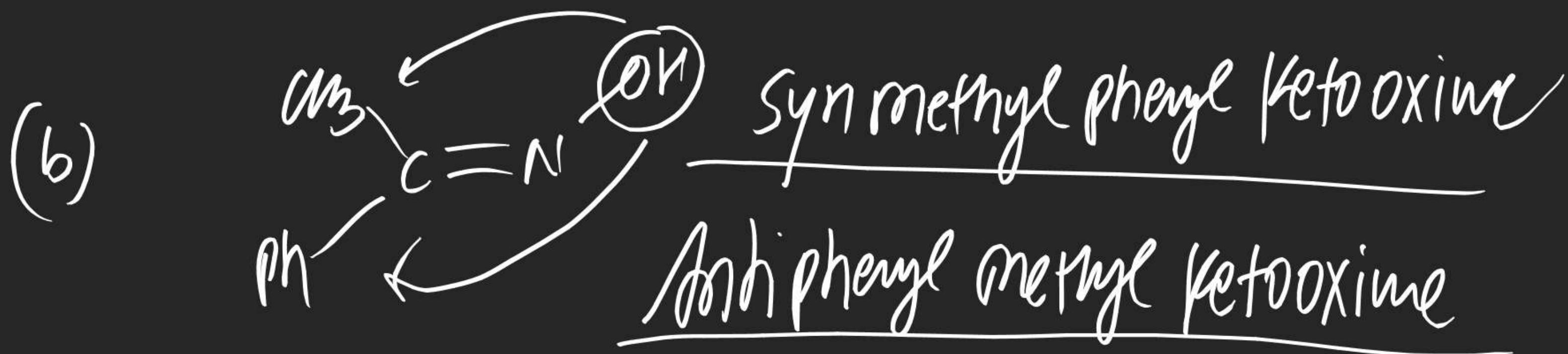


(17)

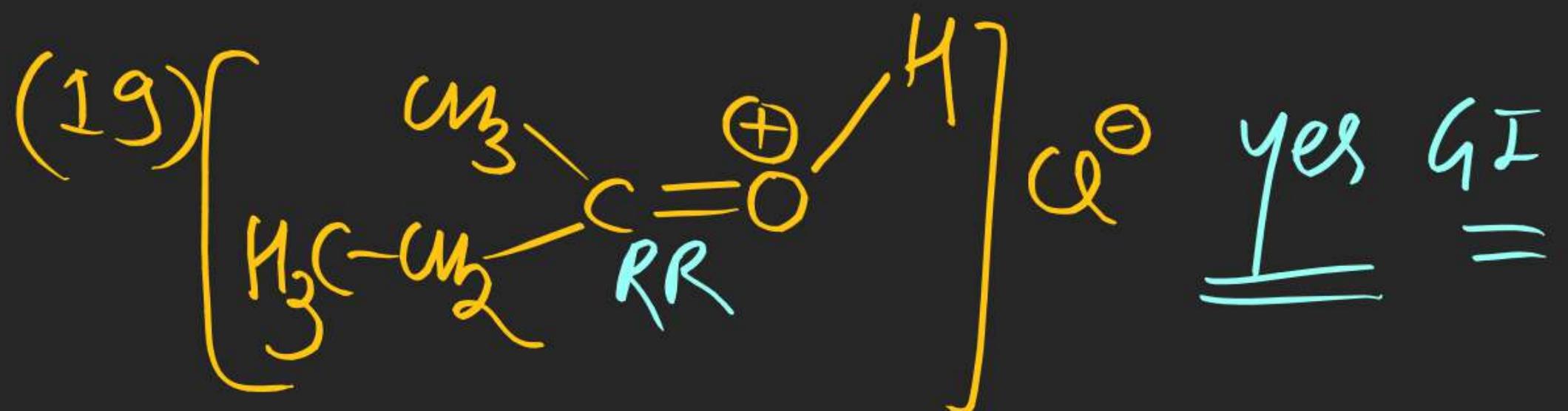
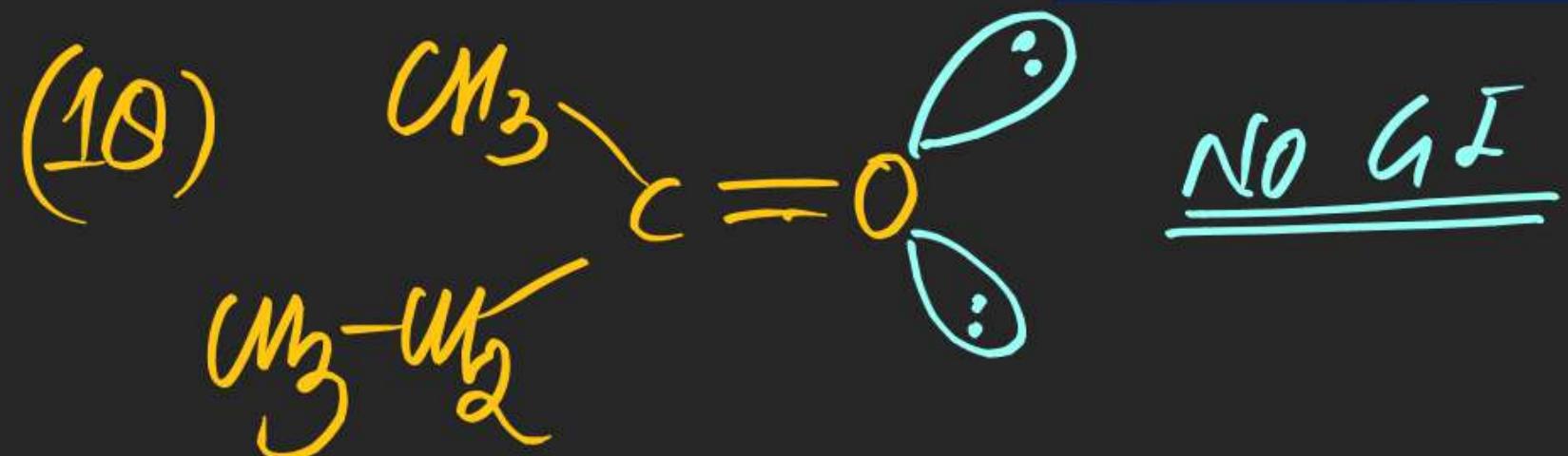


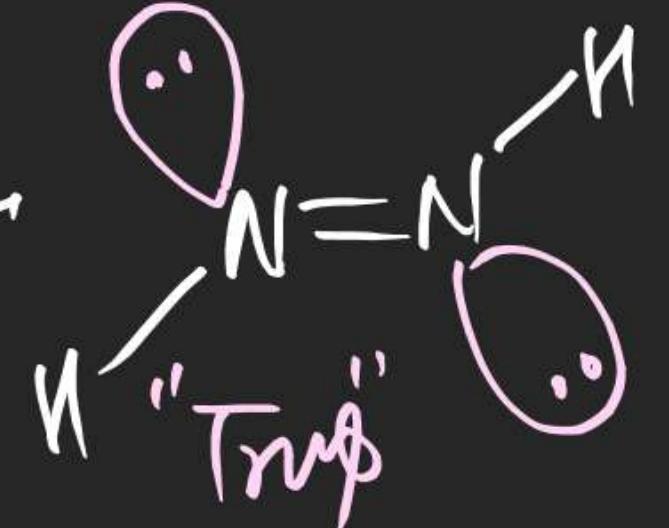
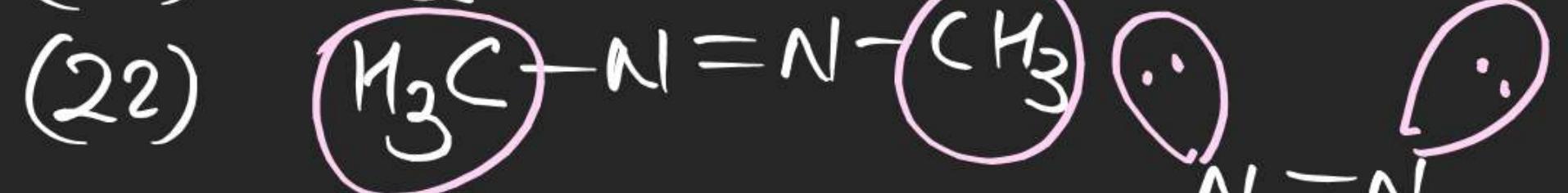
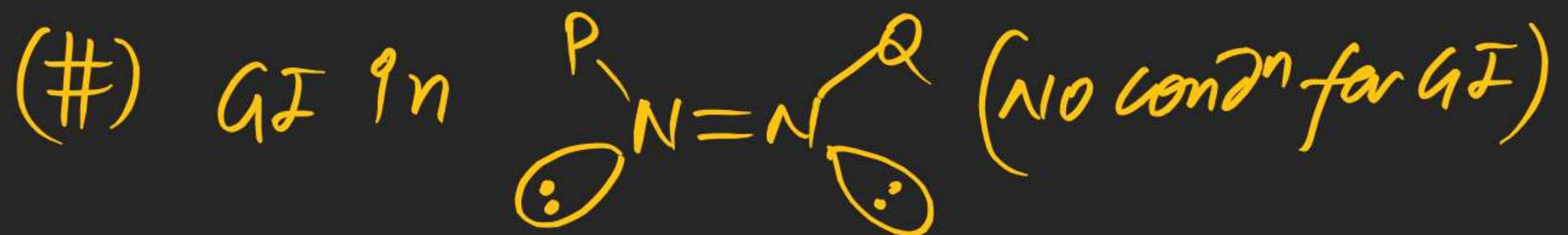


Syn phenyl methyl ketoxine.  
Anti methyl phenyl ketoxine



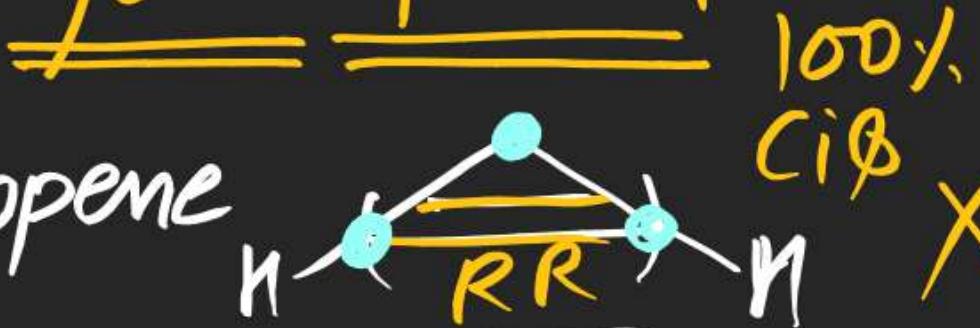
## STEREOISOMERISM





## (#) GI in Cyclo Alkene:-

(24) Cyclopropene



(25) Cyclobutene



(26) Cyclopentene



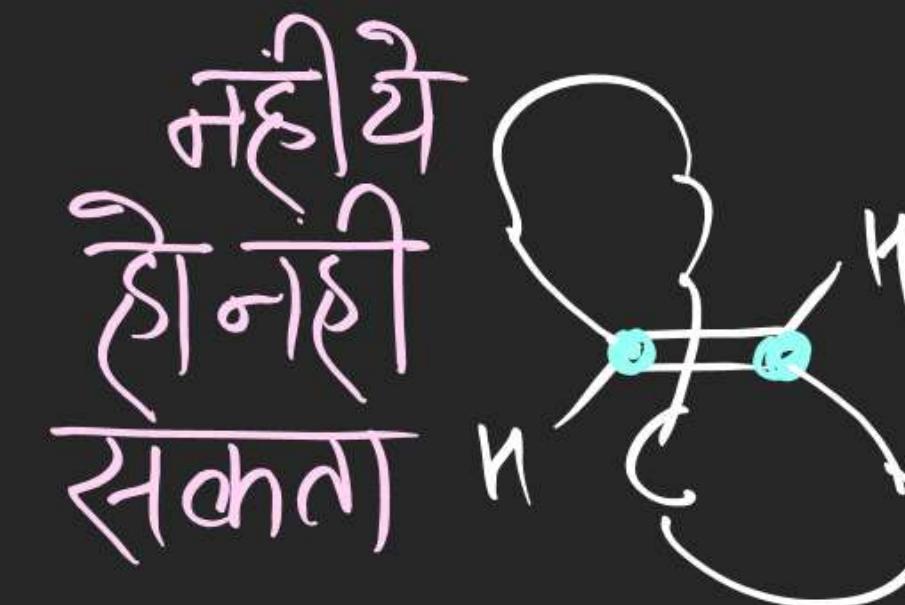
(27) Cyclohexene



(28) Cycloheptene



Note: Smallest Ring which can show GI across double Bond is 8 membered Ring.



(29) Cyclooctene

cis- $\beta$ -cyclooctene

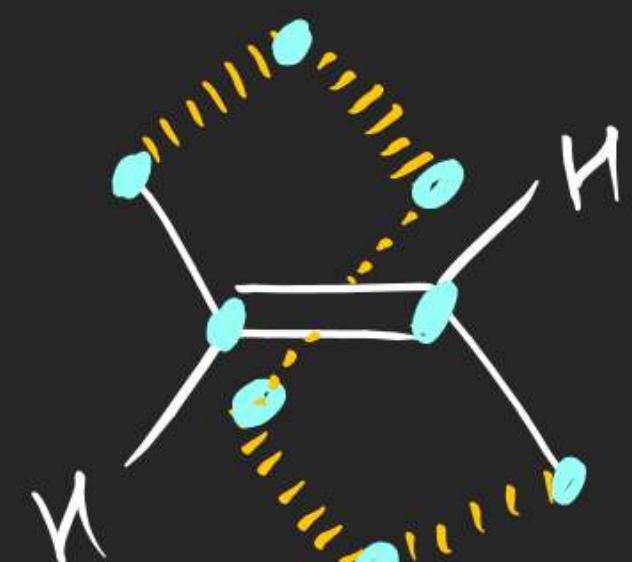
(30) Cyclo nonene

(31) Cyclo decene

(32) Cyclo undecene

(33) Cyclo dodecene

(34) Cyclo tridecene



stability order  
 C >> T

Trans cyclo octene

(C &gt;&gt; T)

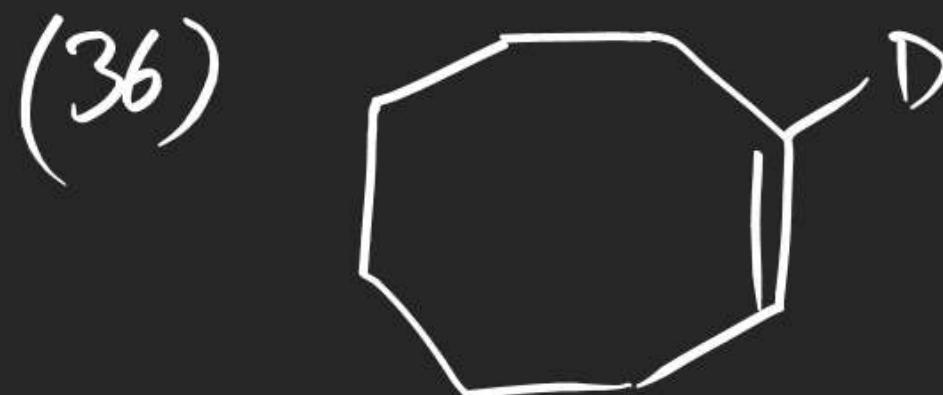
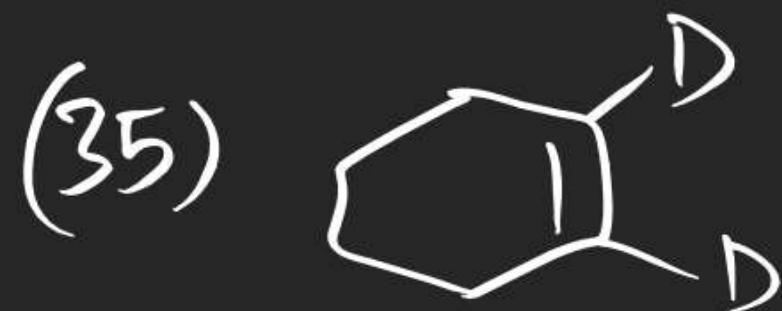
(C &gt; T)

(C ≈ T)

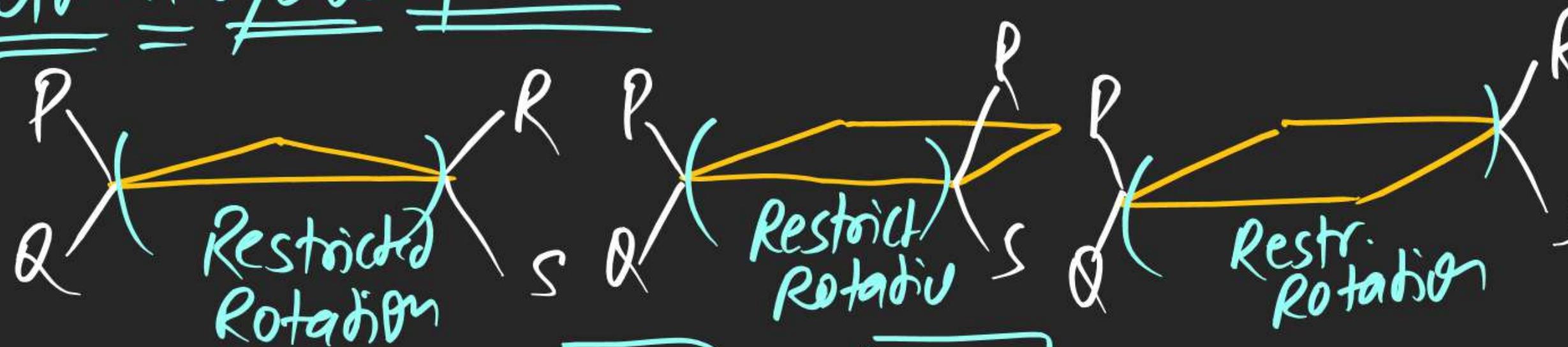
(T &gt; C)

(T &gt;&gt; C)

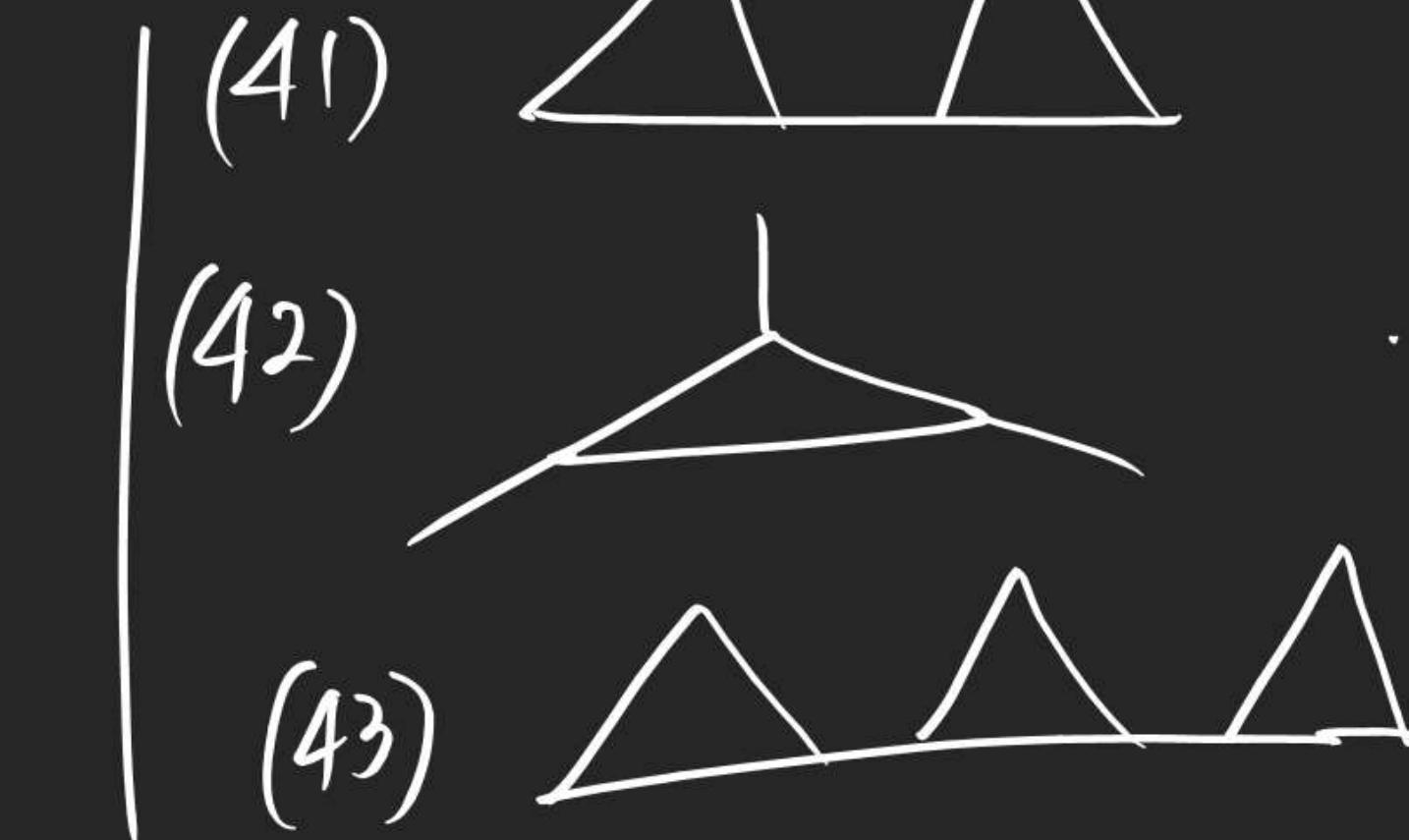
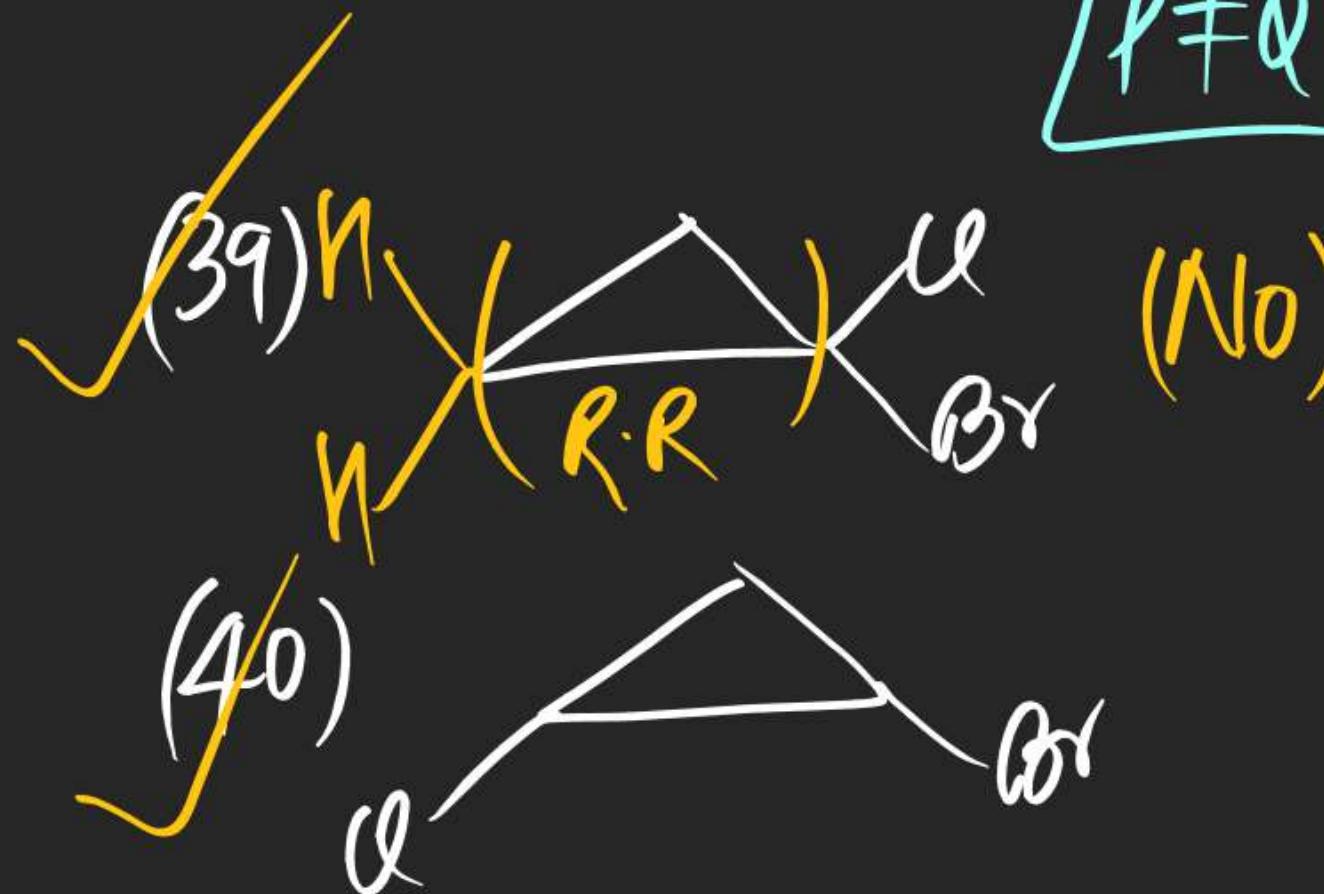
## STEREOISOMERISM



# (#) GI in cycloalkane:



$$\boxed{P \neq Q} \cap \boxed{R \neq S}$$



## STEREOISOMERISM

