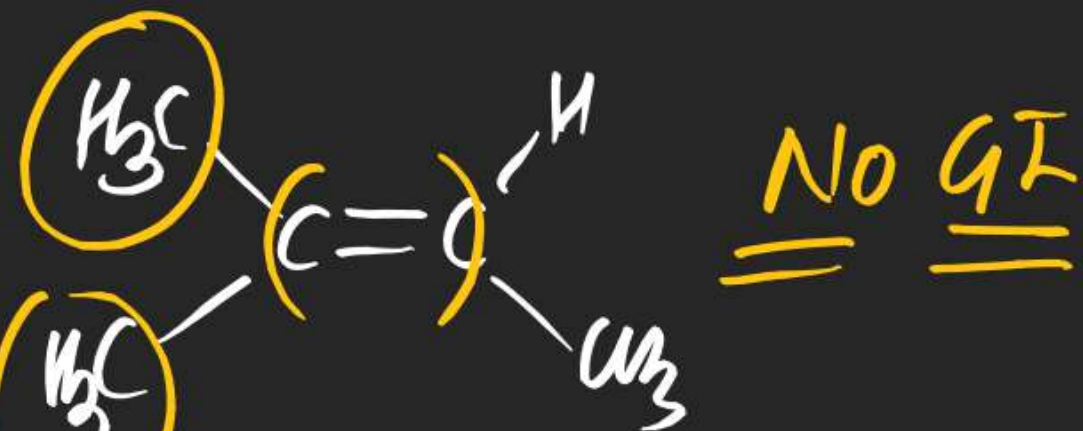


# STEREISOMERISM

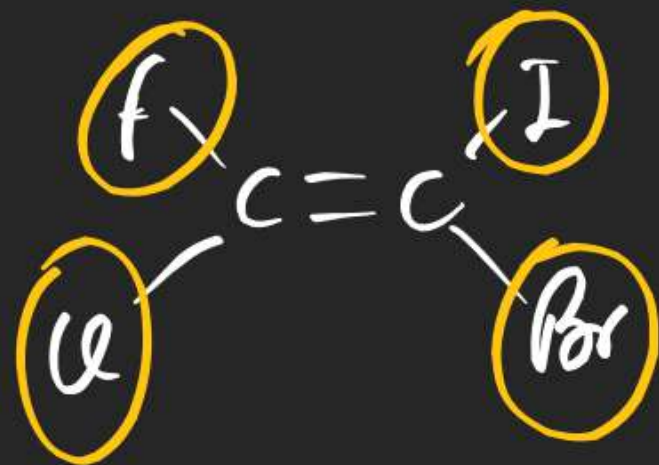
## HW Discussion (GI Theory copy)

(2) No

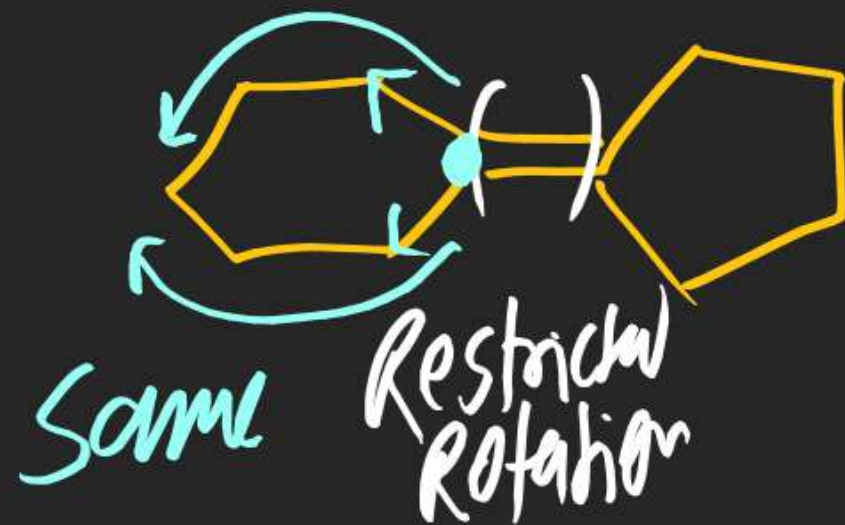
2-methyl-But-2-ene

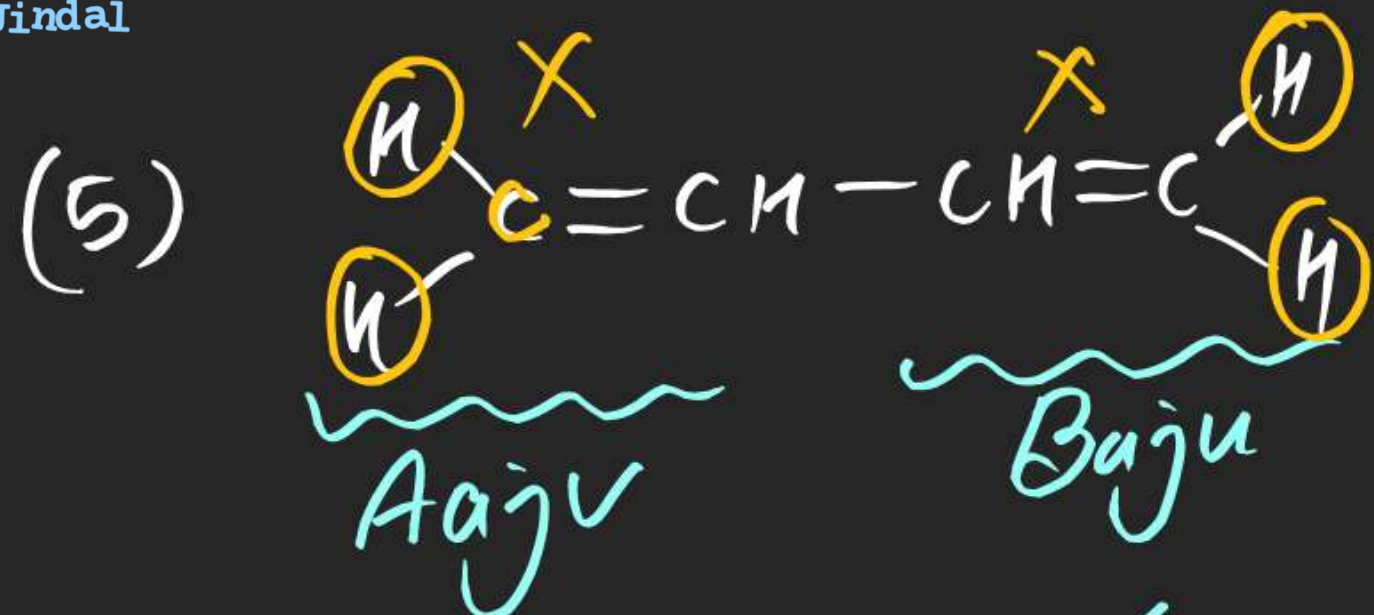


✓ (3) yes

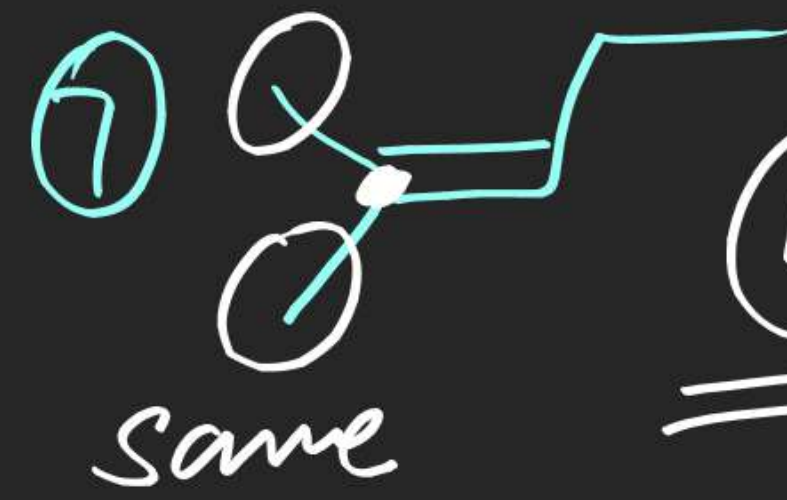


(4) No

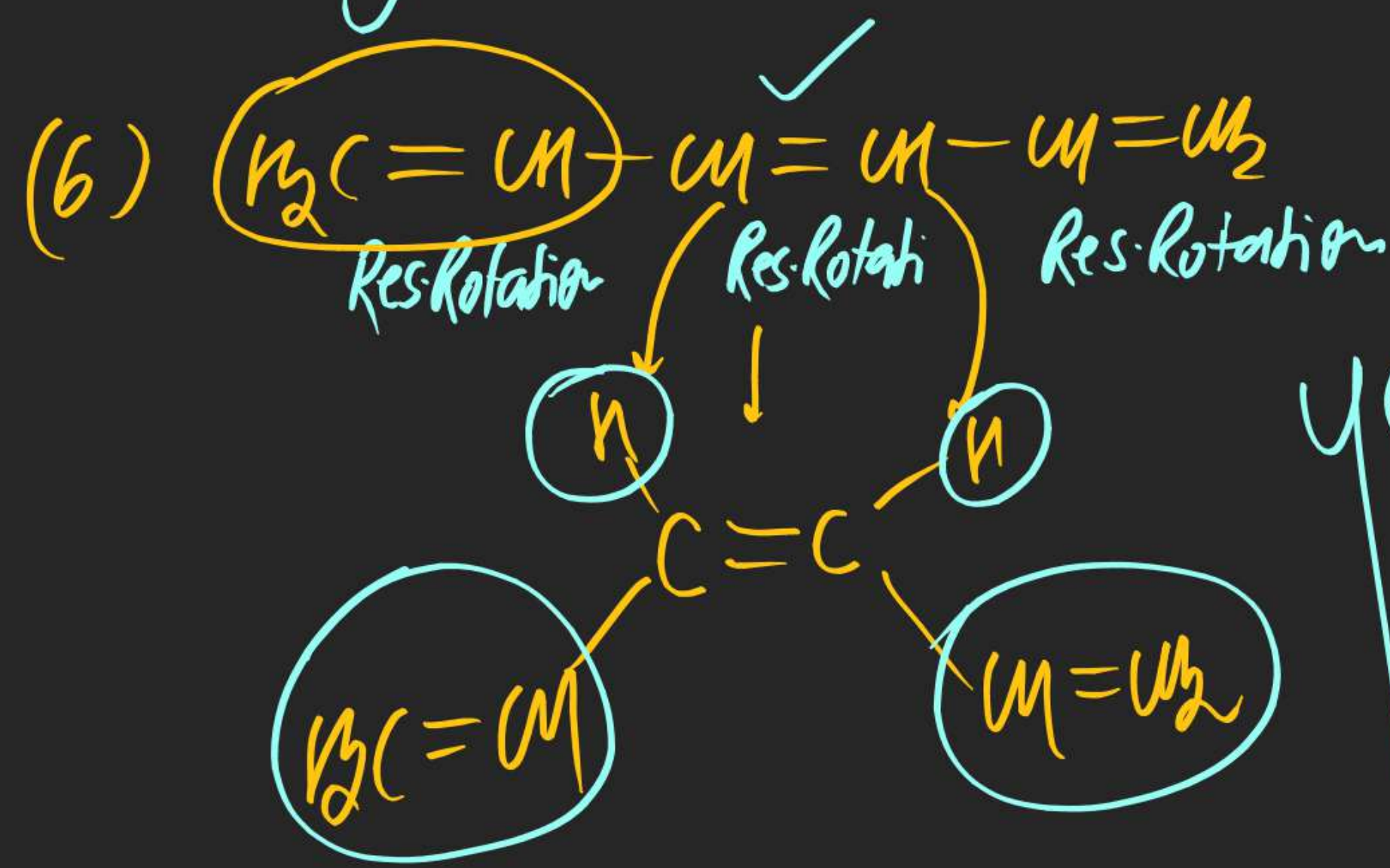




No

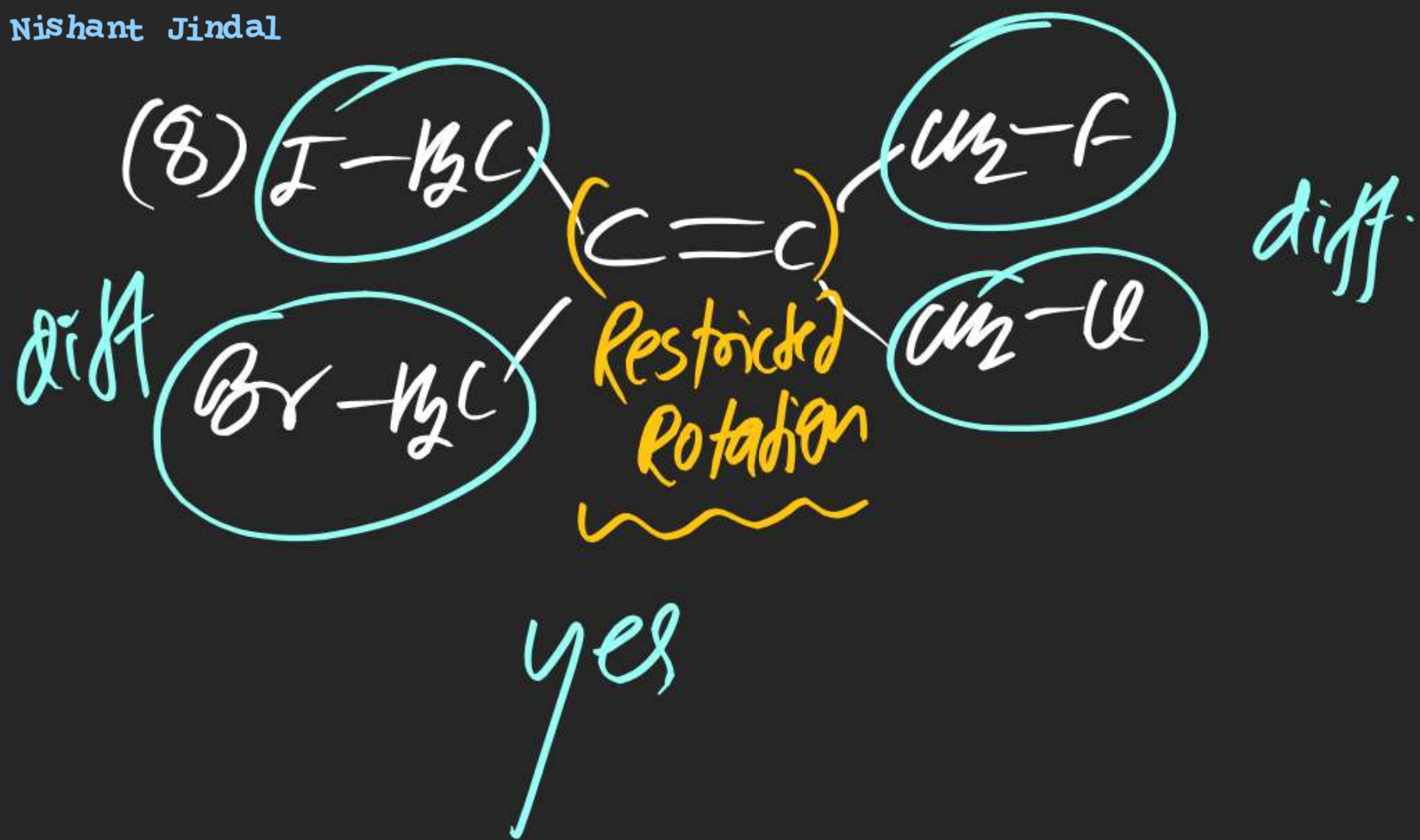


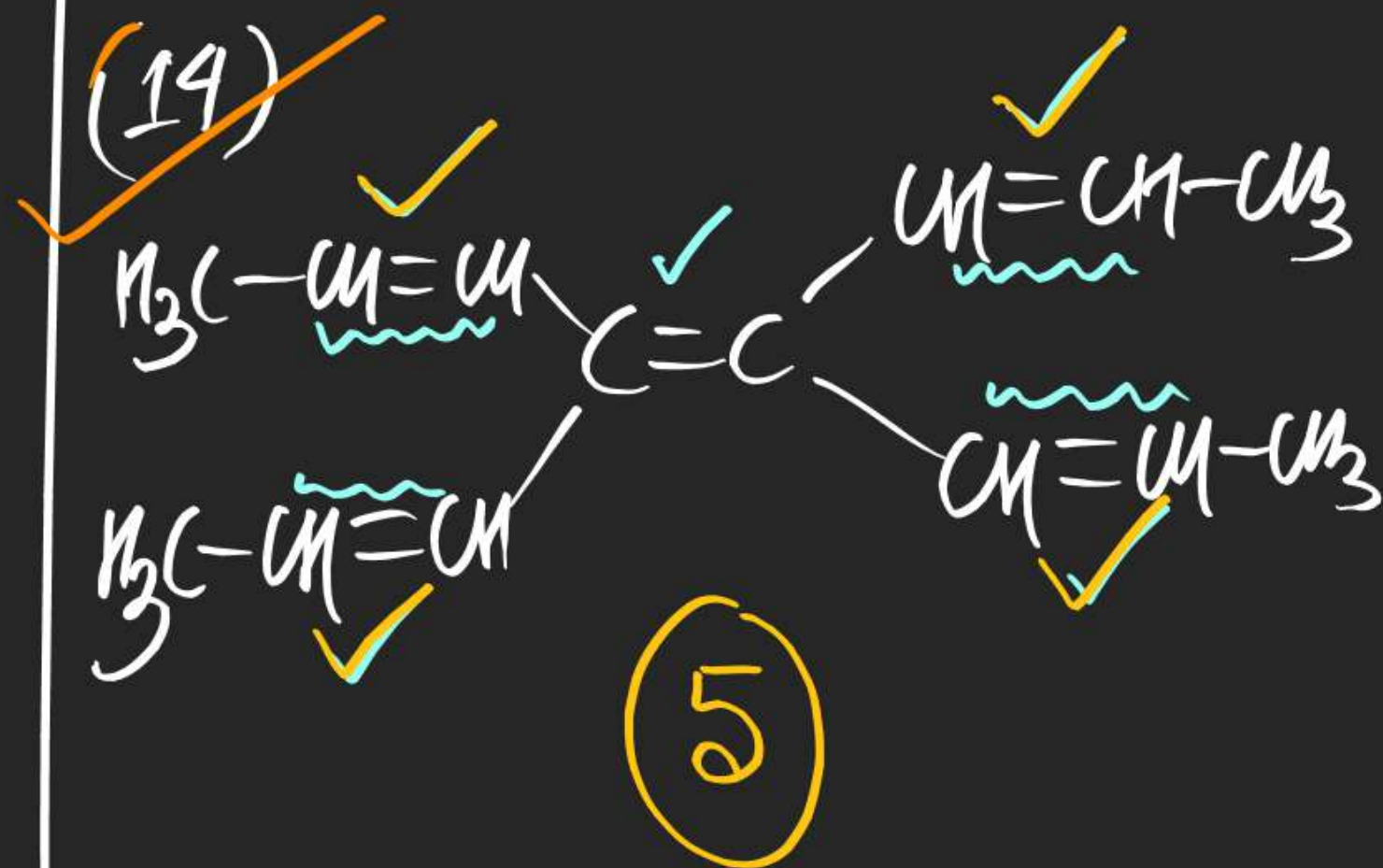
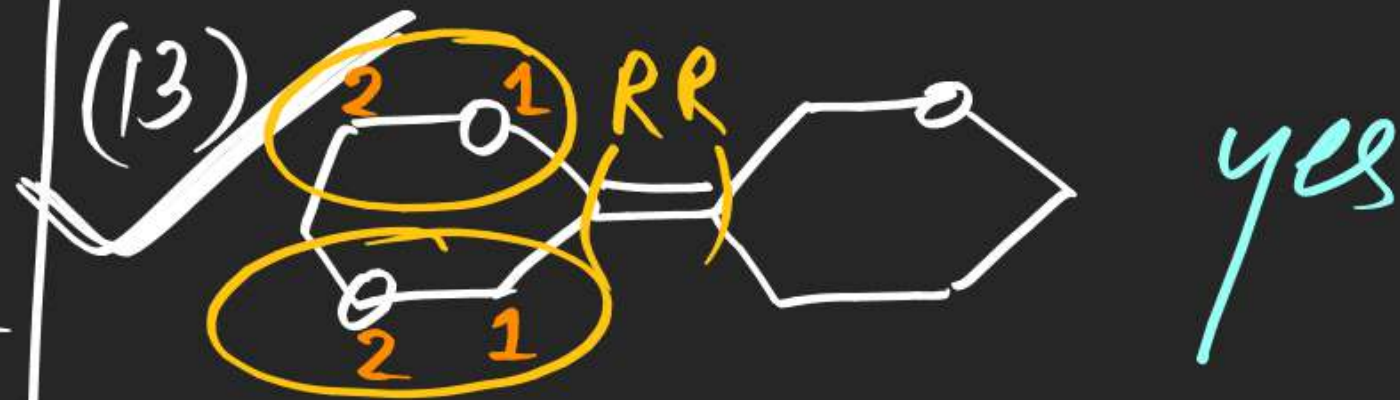
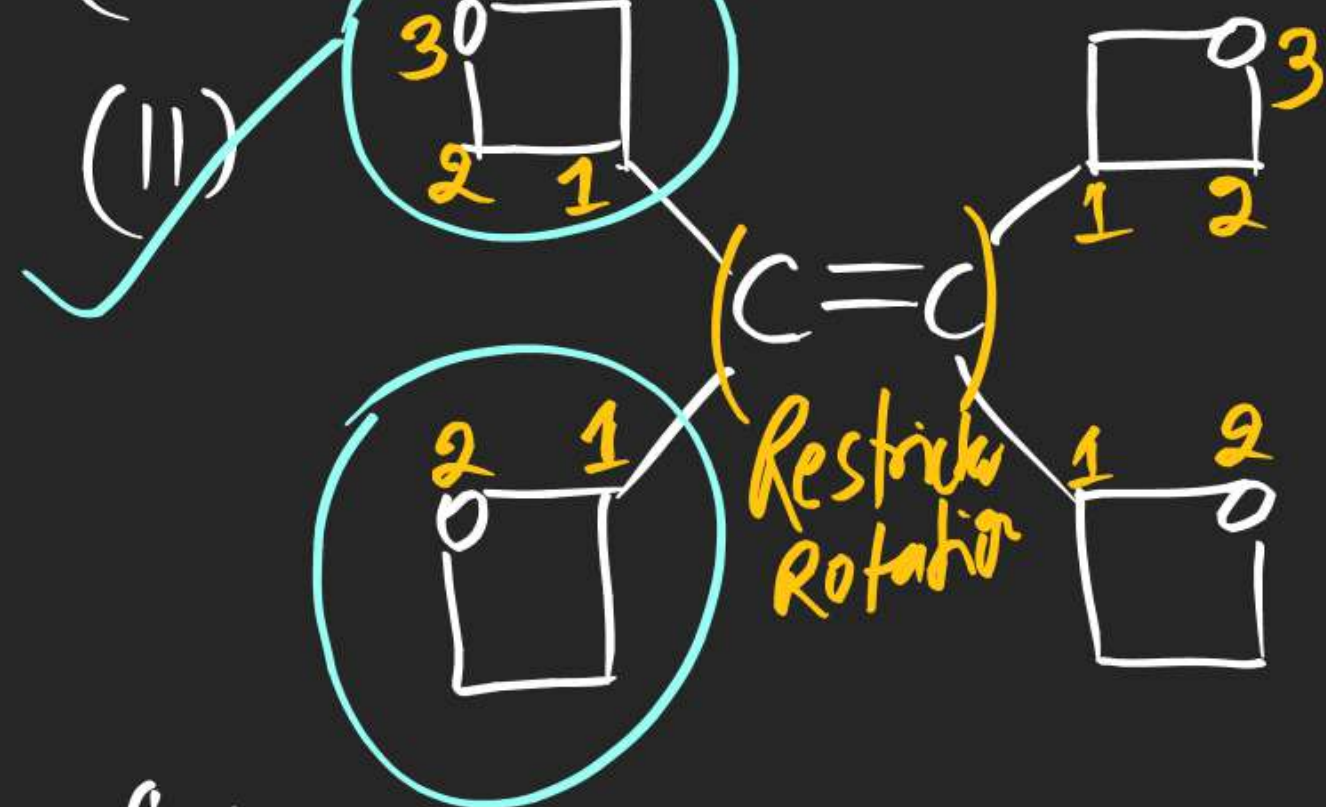
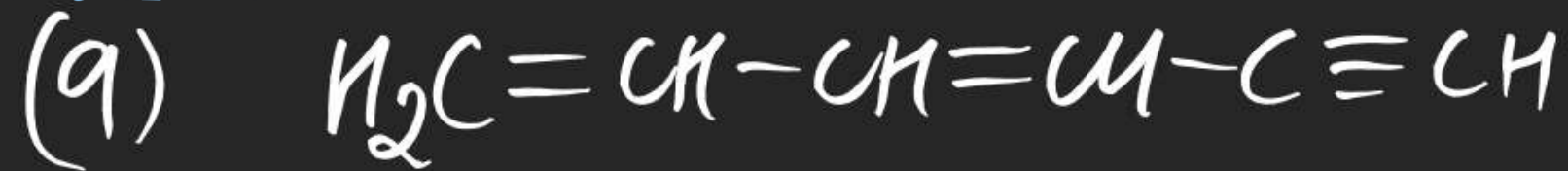
No



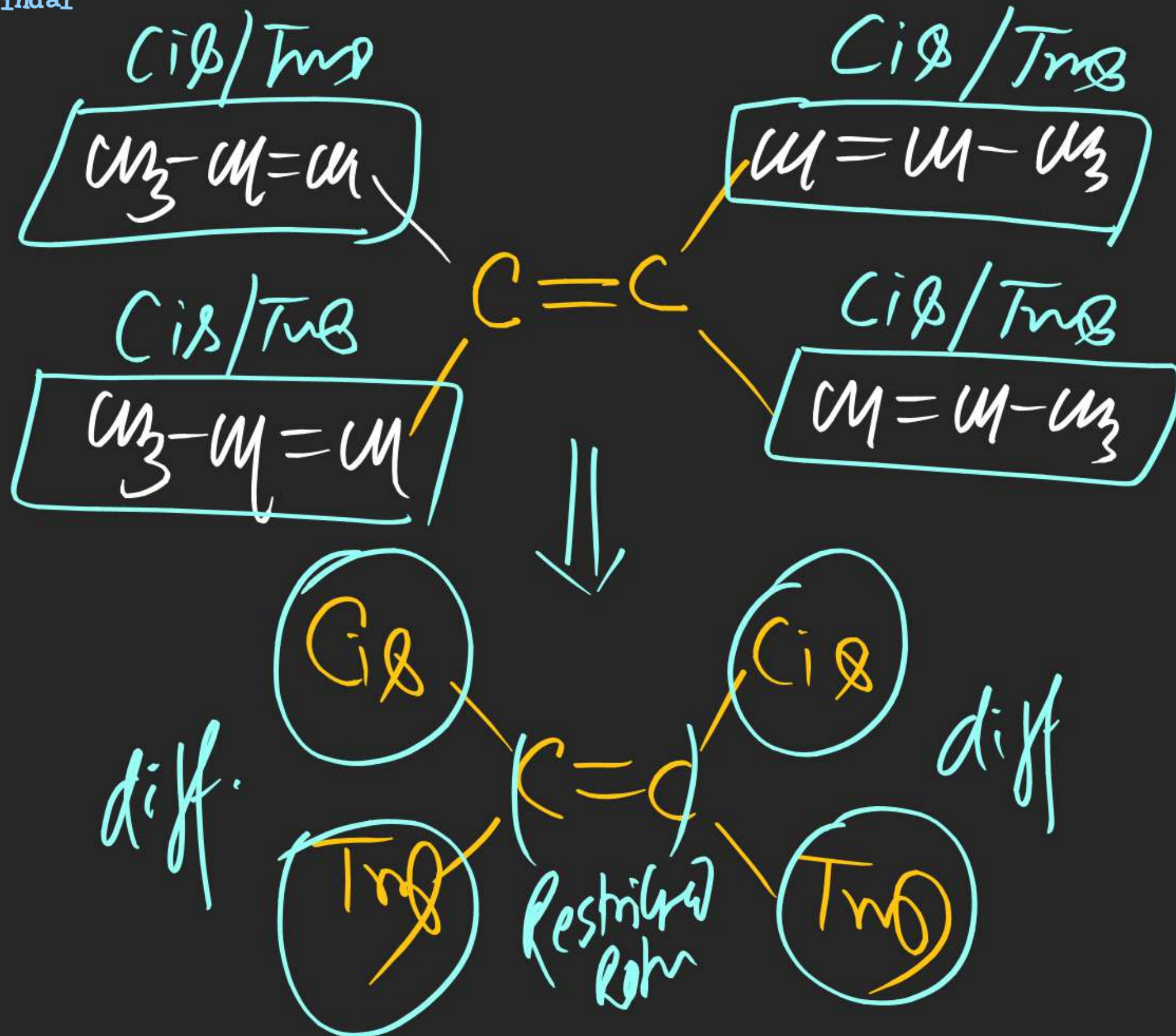
yes













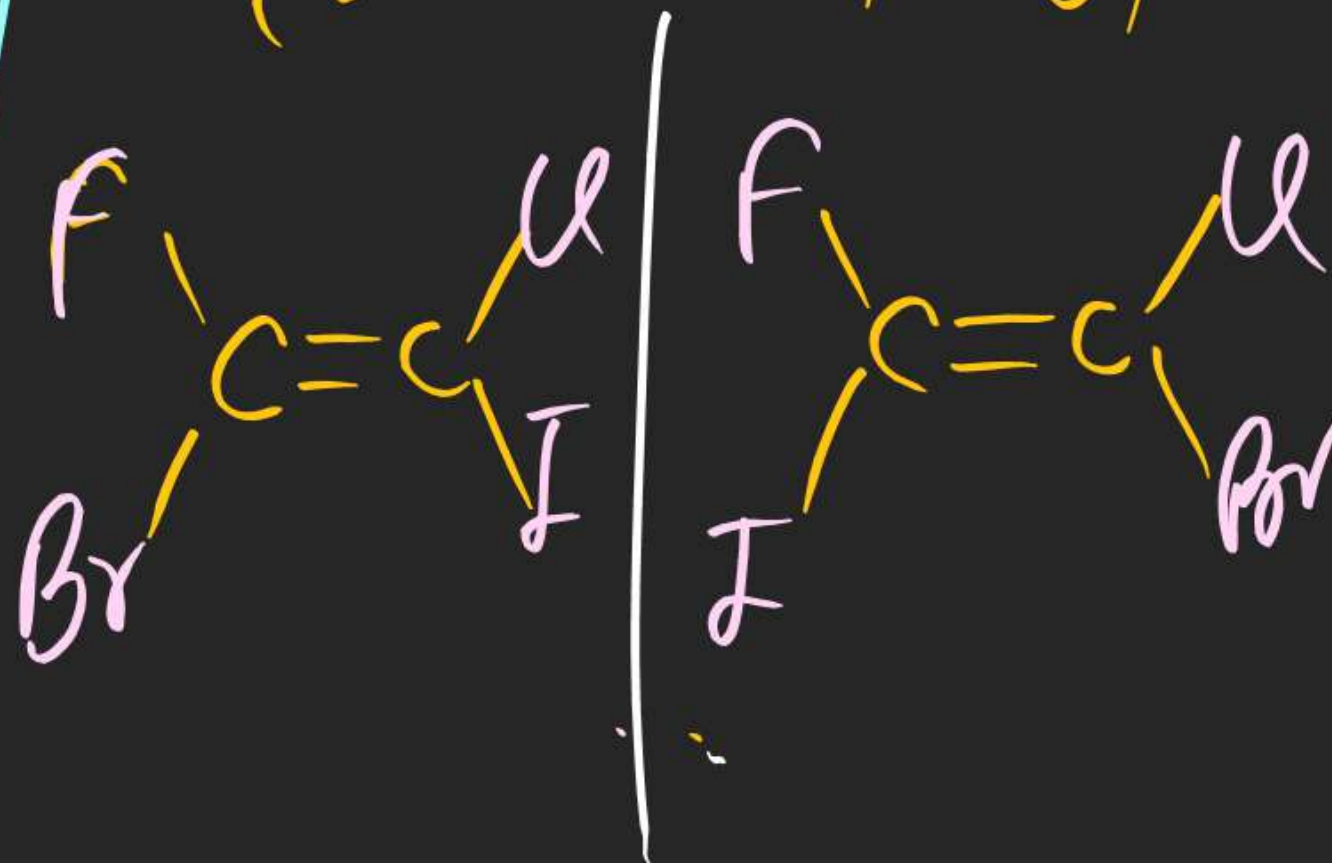
# STEREISOMERISM

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

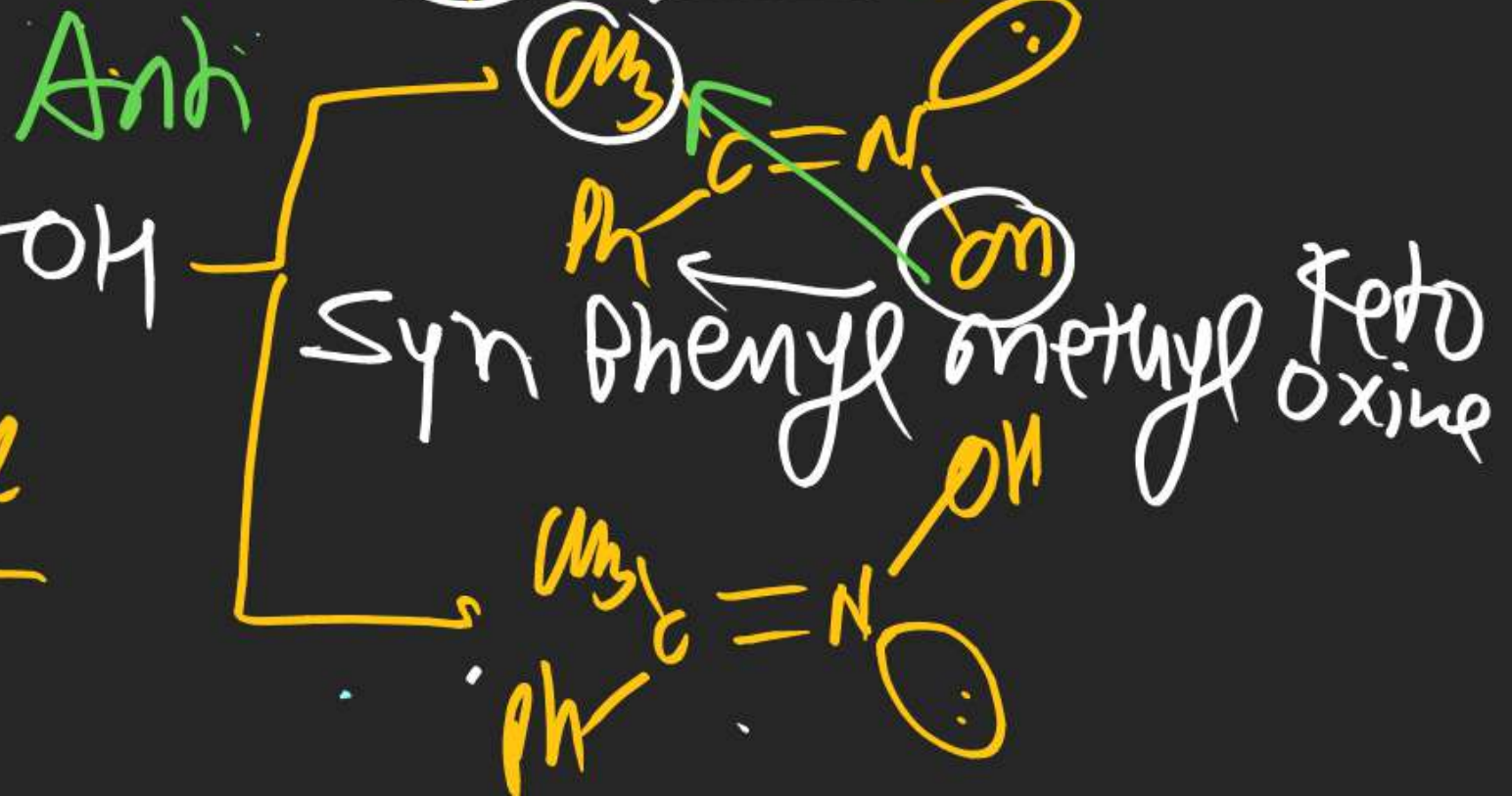
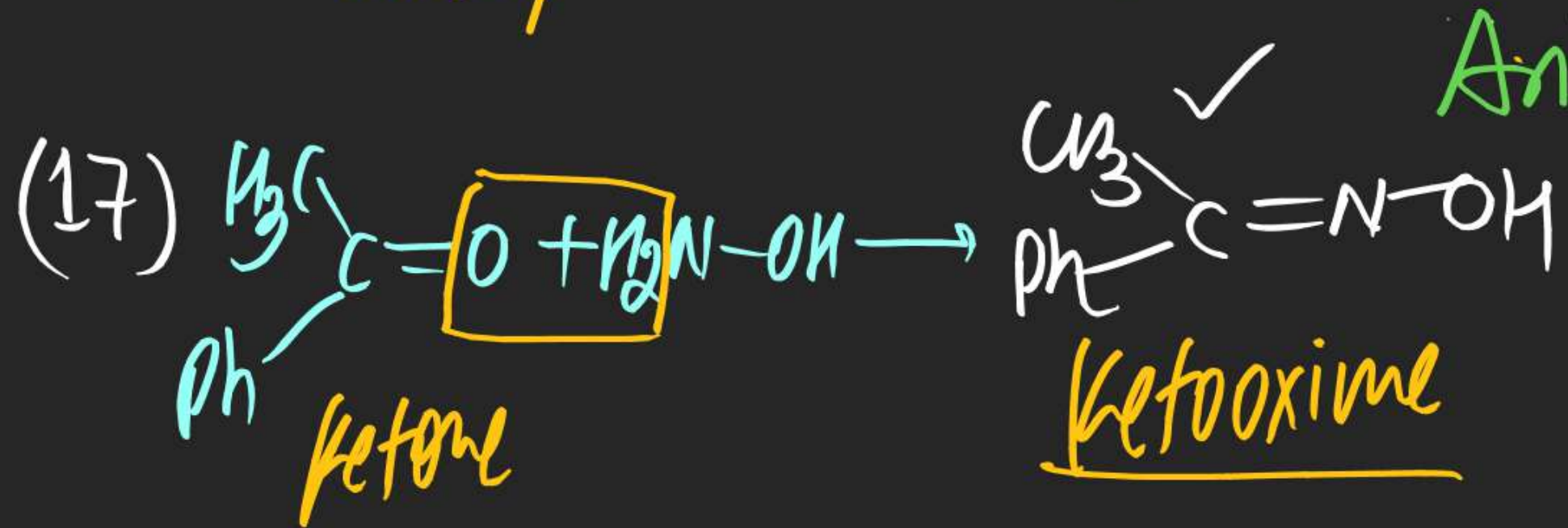
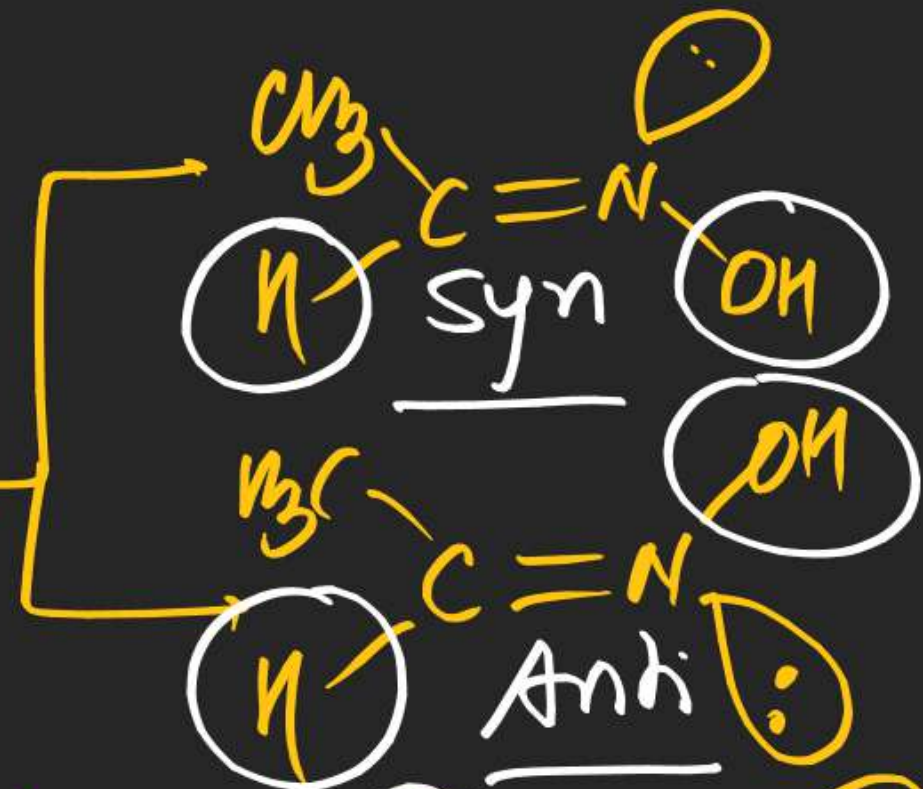
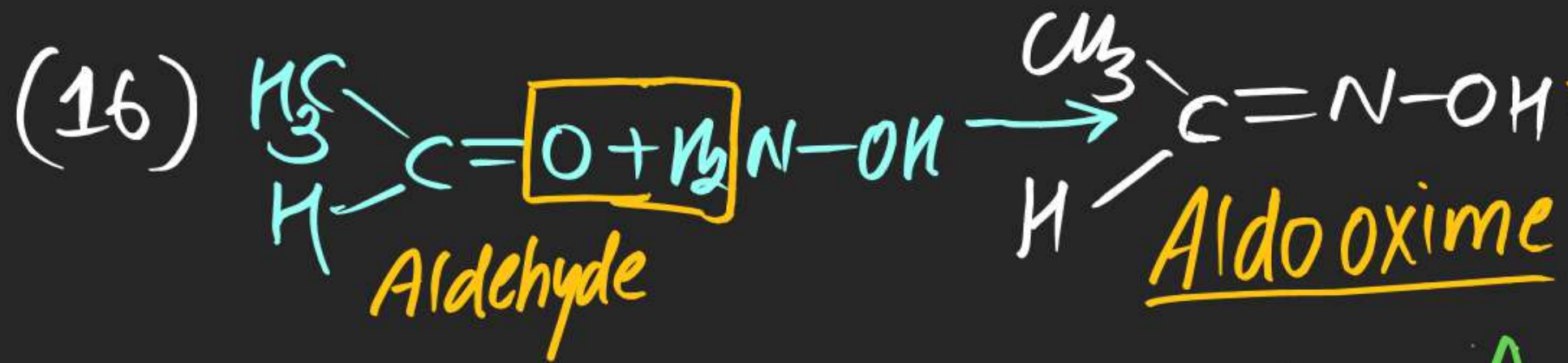
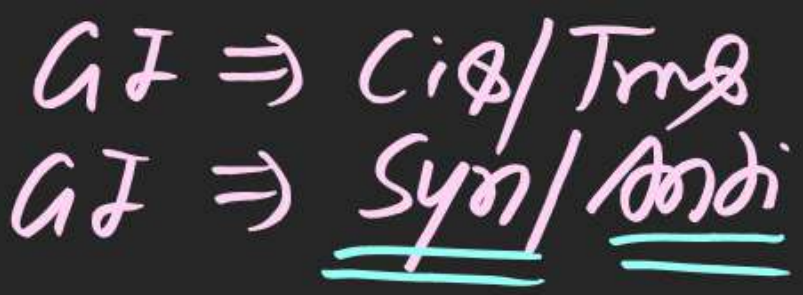
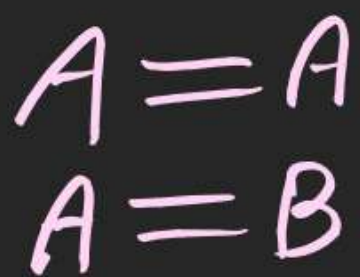
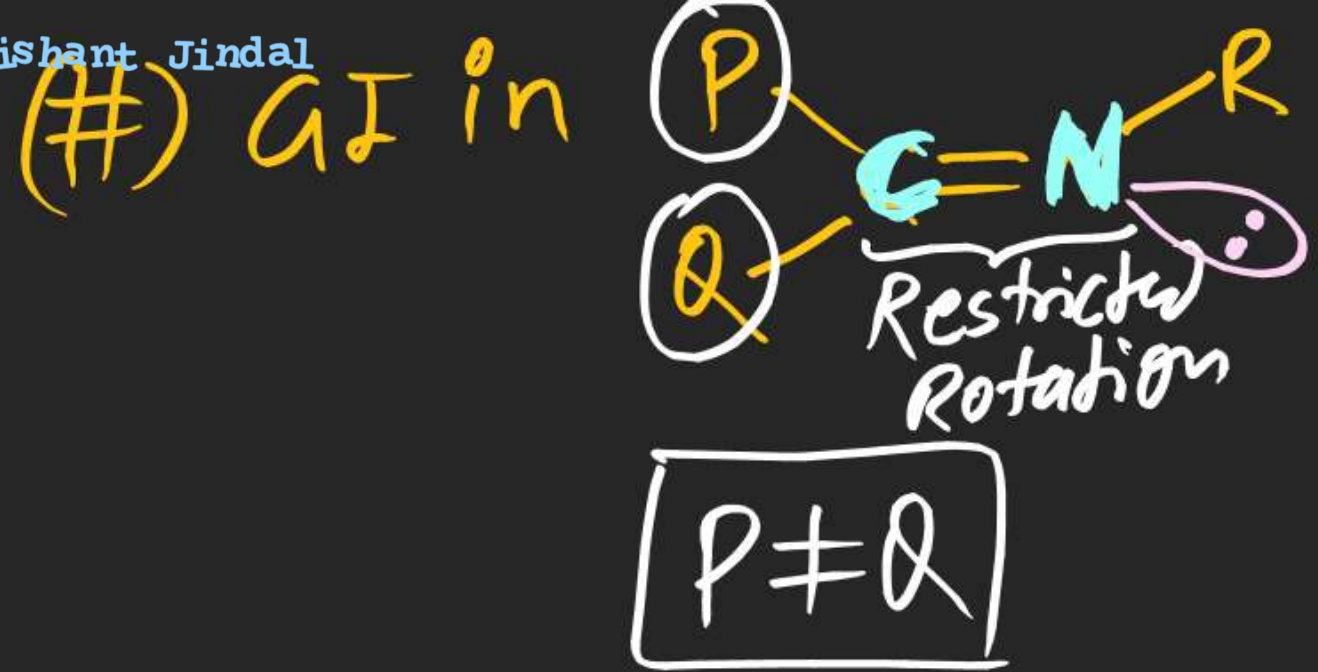


For  
GI

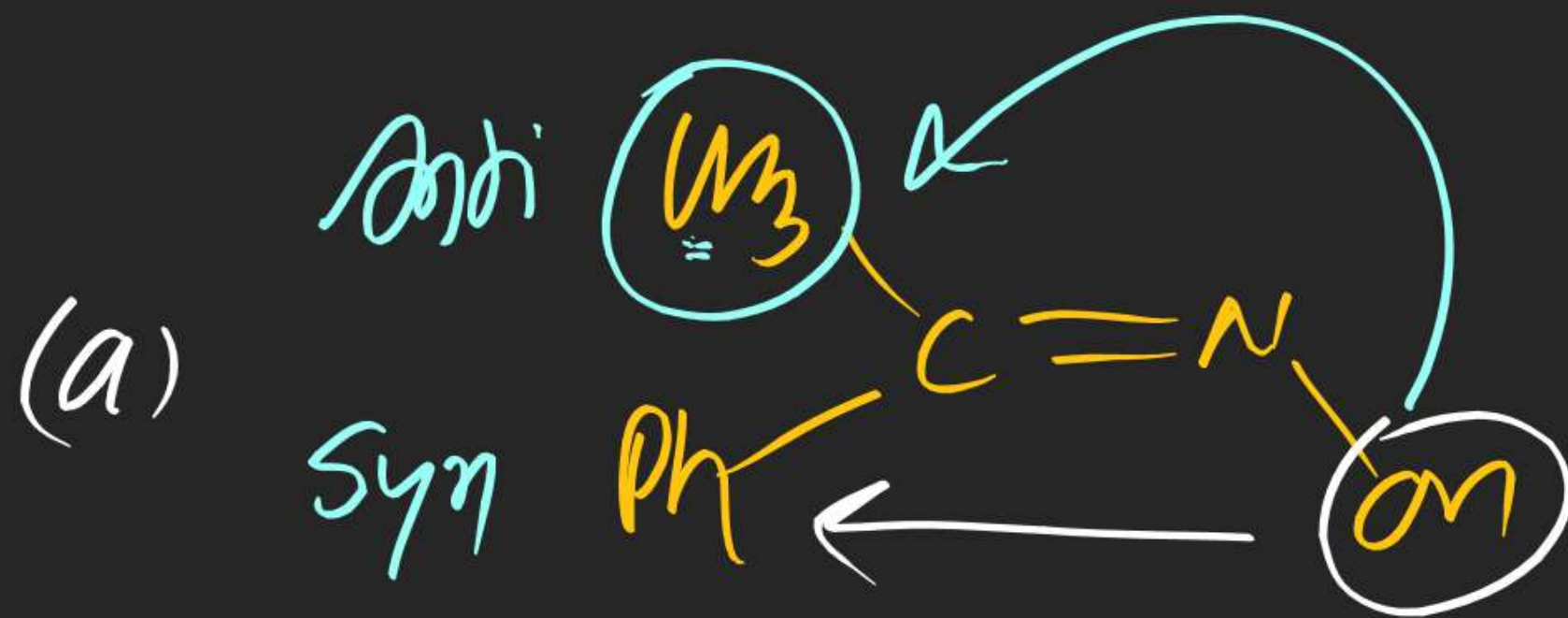
Compound must have  
Restricted Rotation  
(double bond / Ring)



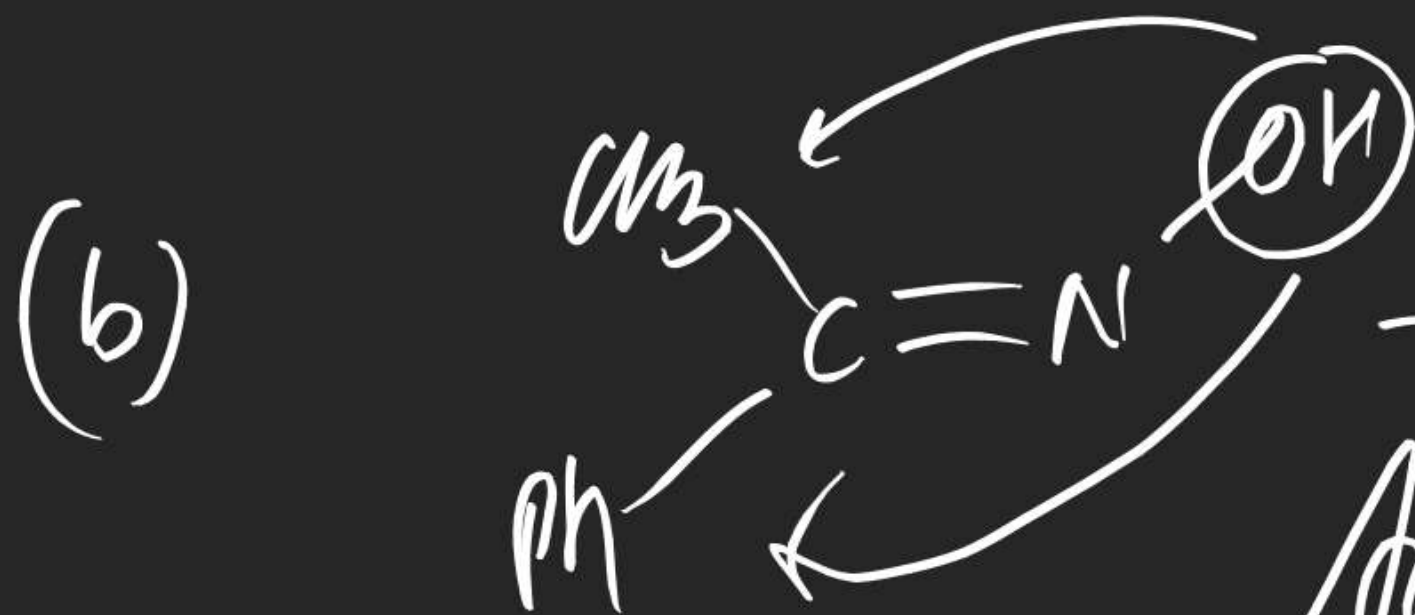








Syn phenyl methyl ketoxime.  
Anti Methyl phenyl ketoxime

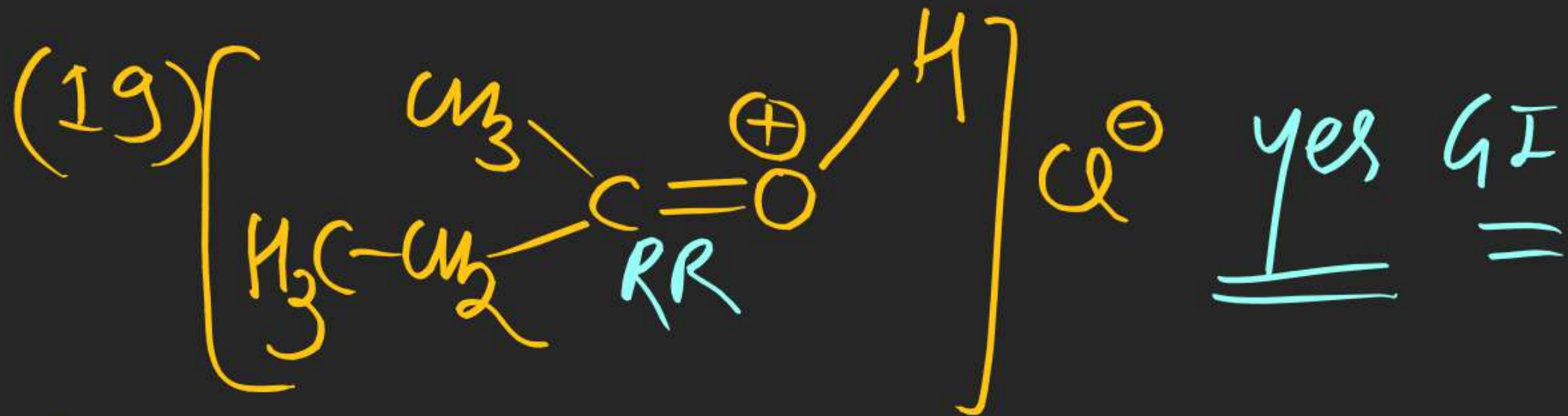
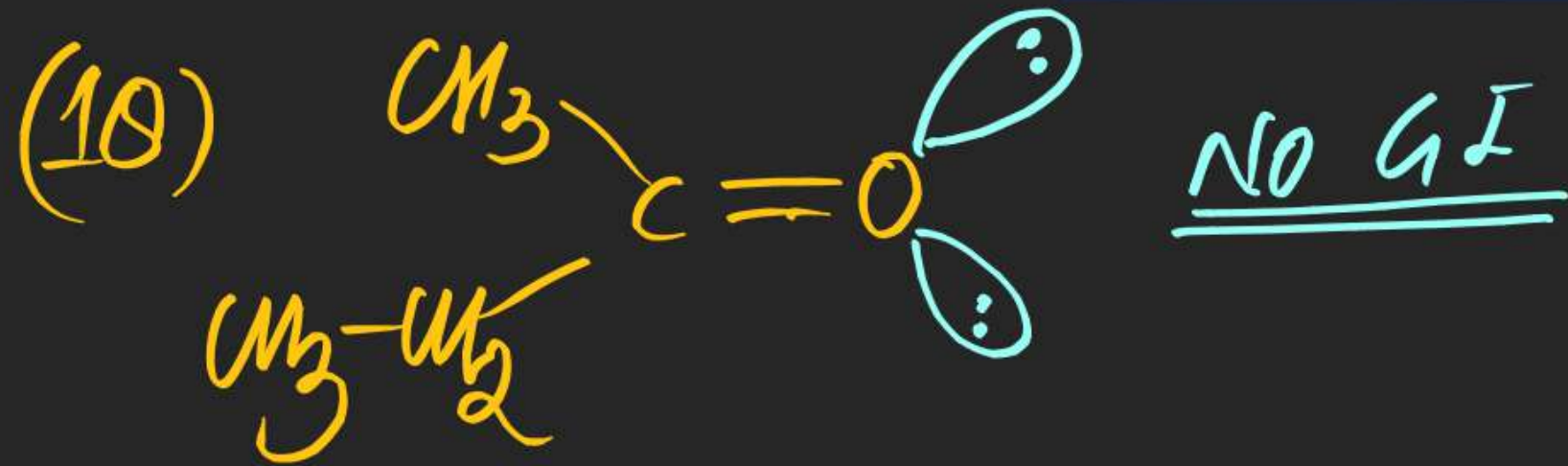


Syn methyl phenyl ketoxime

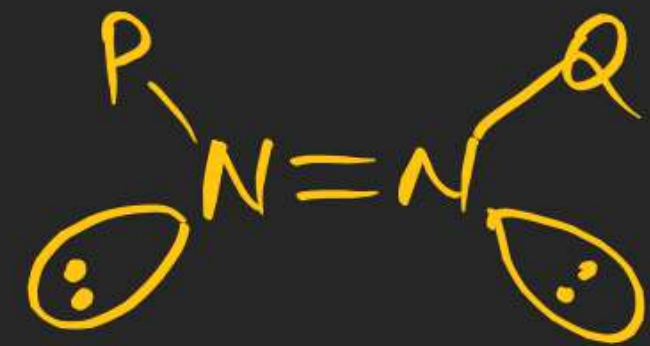
Anti phenyl methyl ketoxime



## STEREISOMERISM

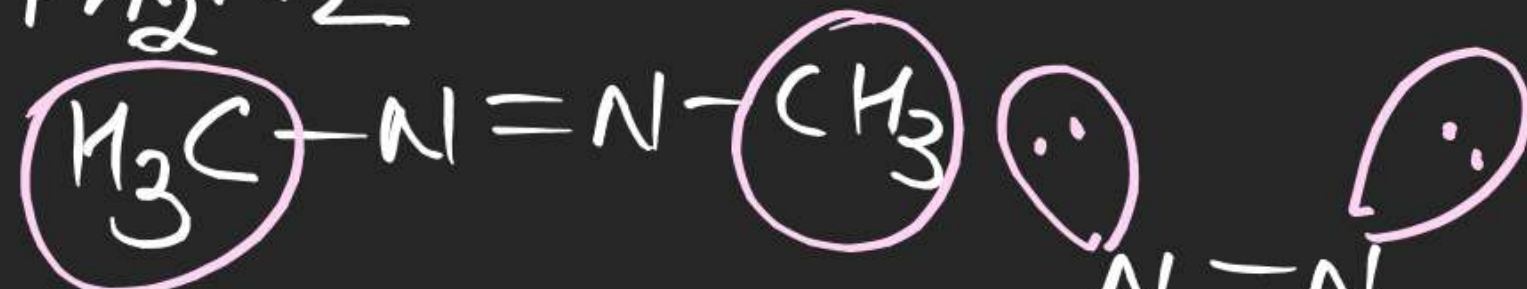


(#) GI in  $\text{P}-\text{N}=\text{N}-\text{Q}$  (No cond<sup>n</sup> for GI)

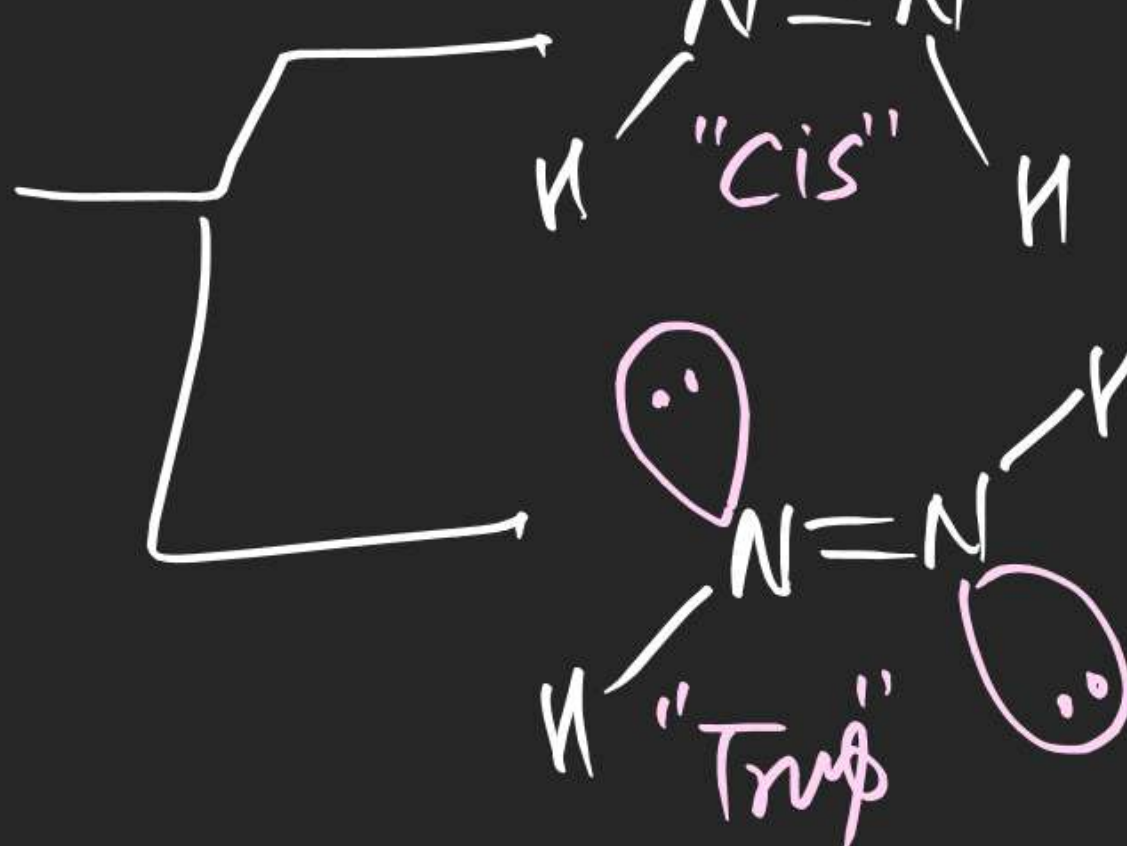


(21)  $\text{Ph}_2\text{N}_2$

(22)  $\text{H}_3\text{C}-\text{N}=\text{N}-\text{CH}_3$



(23)  $\text{N}_2\text{H}_2$



"Cis"

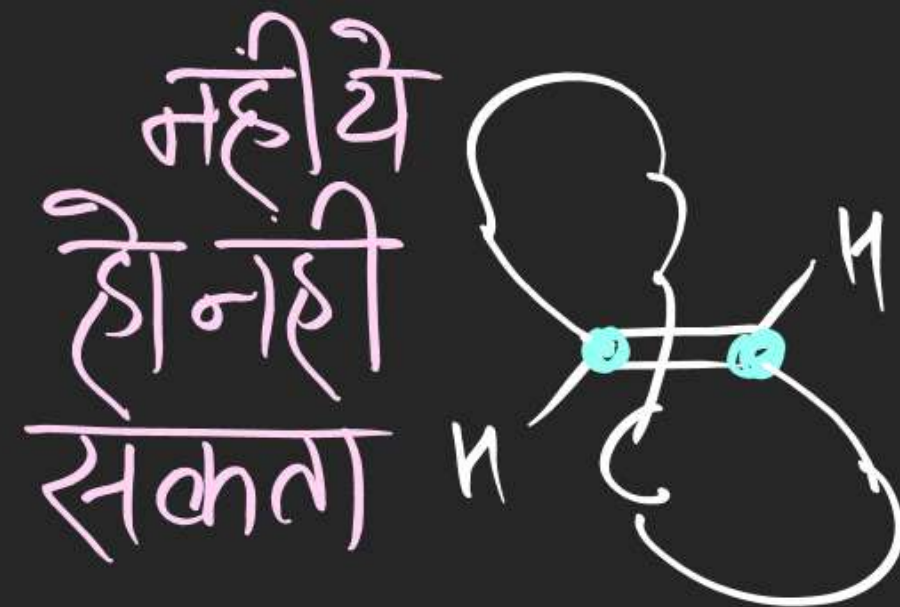
"Trans"



# (#) GI in Cydo Alkene:



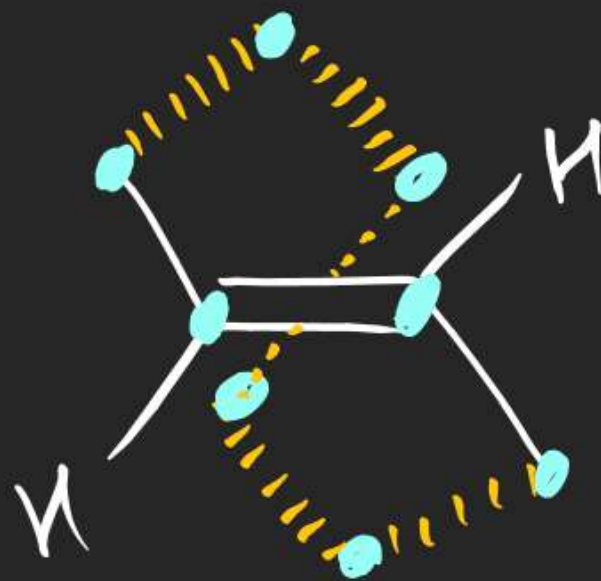
Note: Smallest Ring which can show GI across double Bond is 8 membered Ring.



(29) Cyclooctene



cis-Cyclooctene



stability order  
C >>> T

Trans Cyclooctene

(C >> T)

(C > T)

(C ≈ T)

(T > C)

(T >>> C)

(30) Cyclononene

(31) Cyclodecene

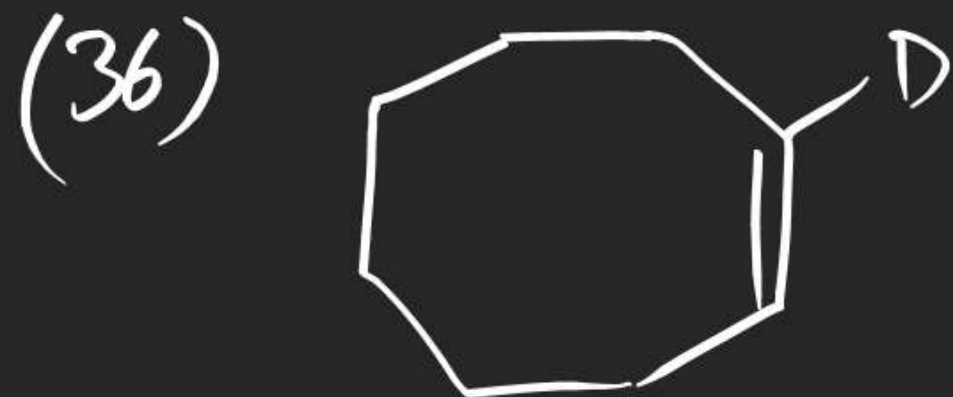
(32) Cycloundecene

(33) Cyclododecene

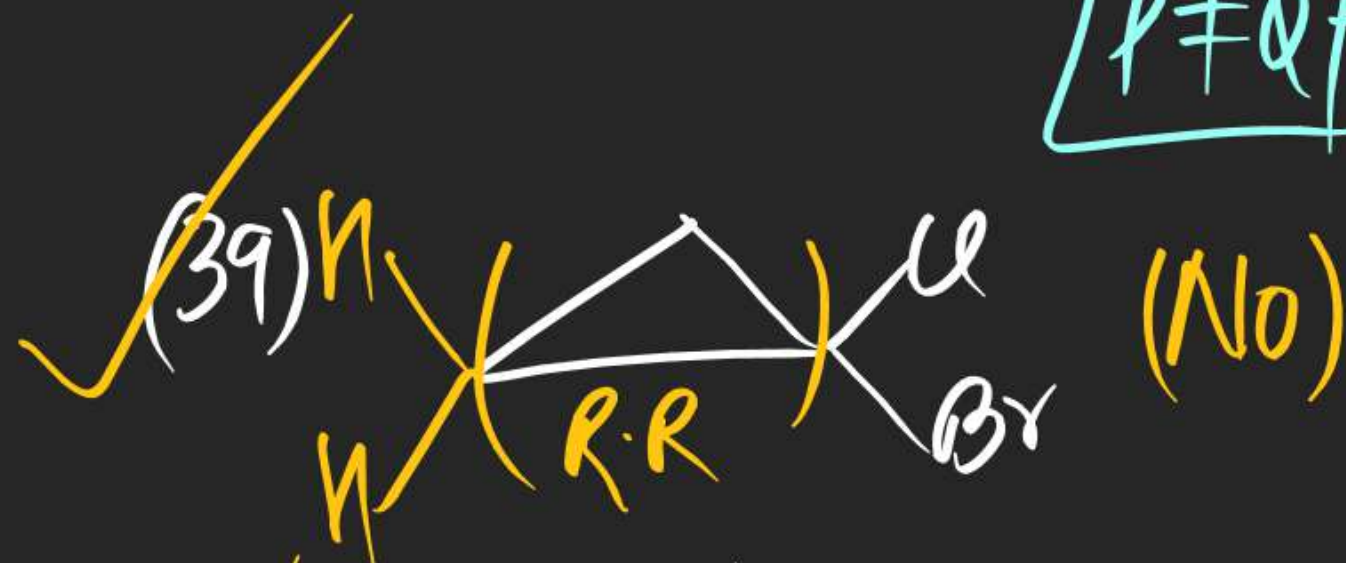
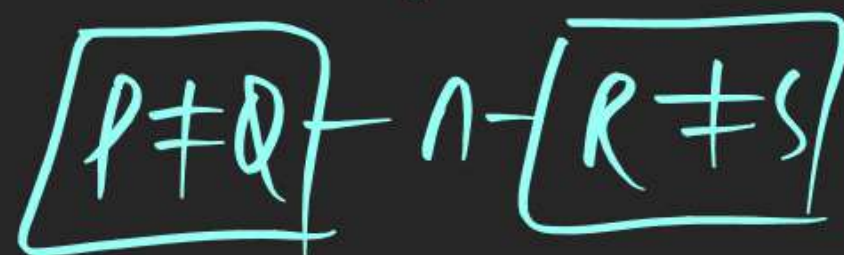
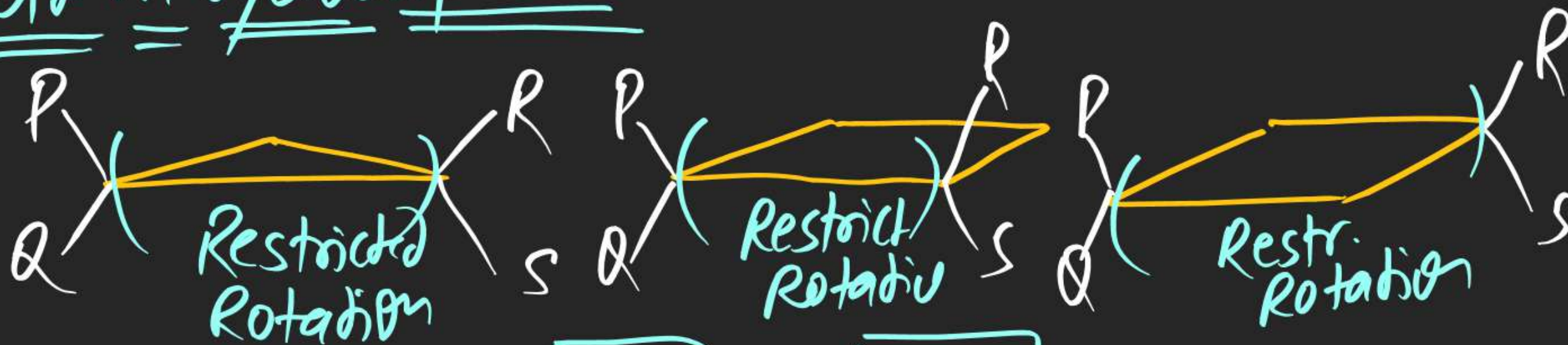
(34) Cyclotridecene



## STEREISOMERISM



# (#) GI in cycloalkane:-



(41)



(42)



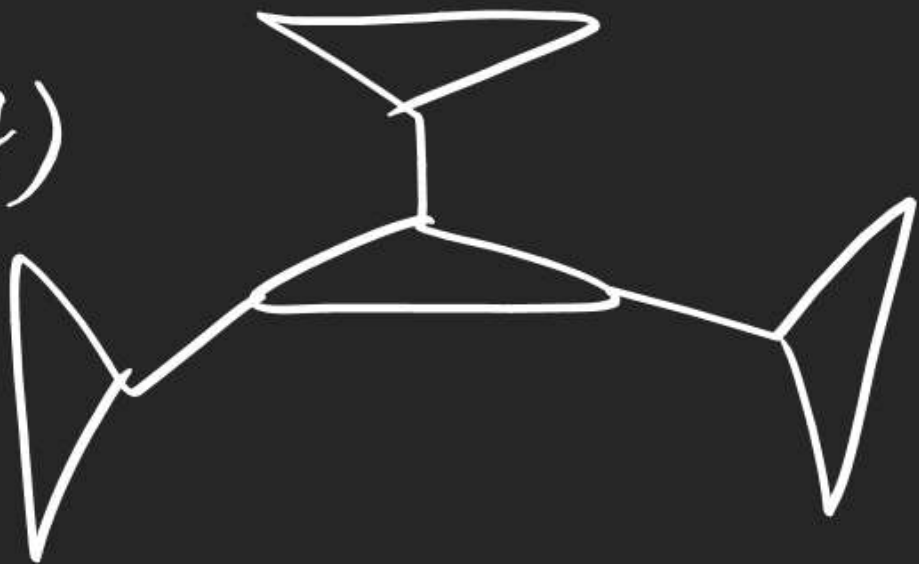
(43)



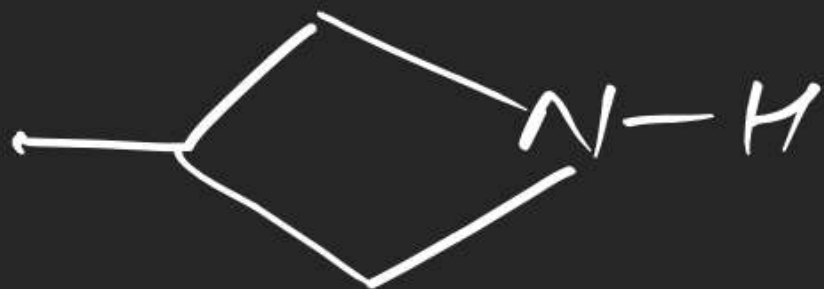


## STEREISOMERISM

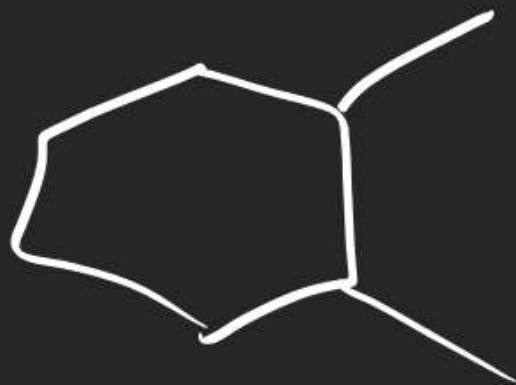
(44)



(45)



(46)



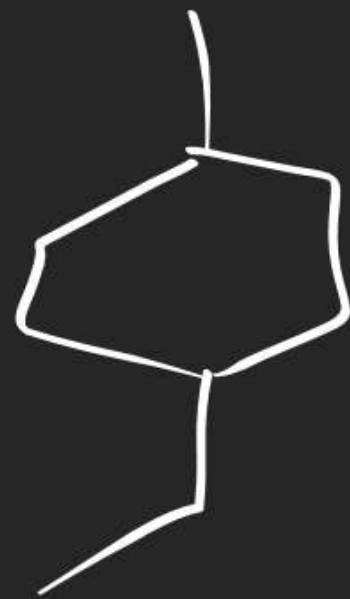
(47)



(48)



(49)



(50)

