

# STEREOISOMERISM

NW Discussion (Theory)

copy:-

- (54) yes
- (55) yes
- (56) yes
- (57 - 62) yes

(65) yes

(66) yes

(67) yes

(68) yes

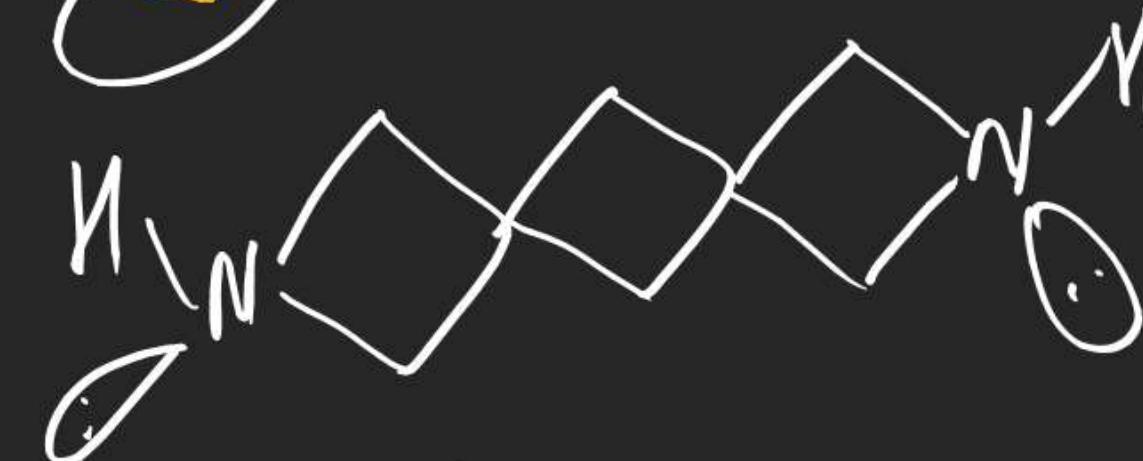
(69) yes

(70)



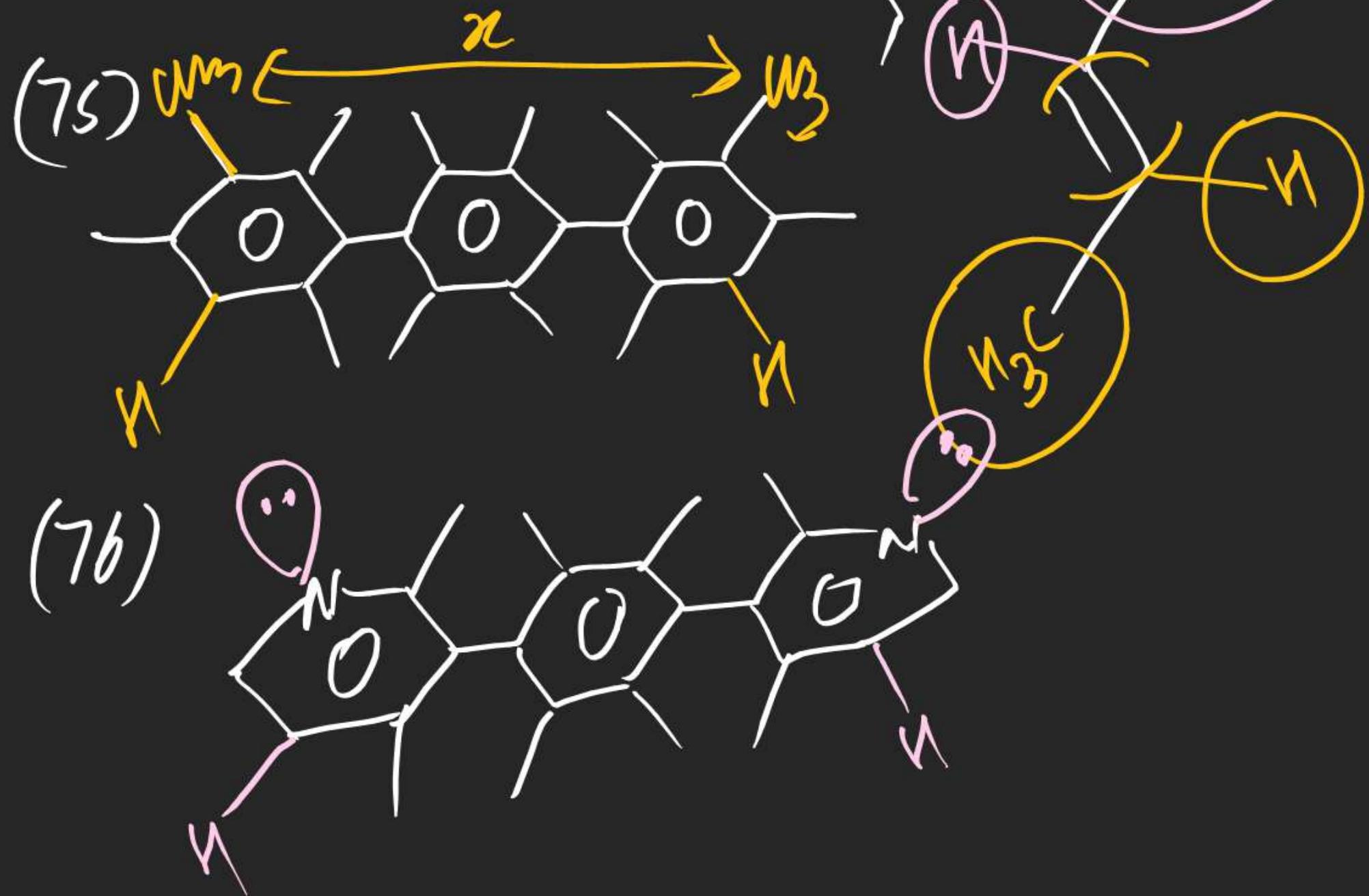
yes

(71) yes



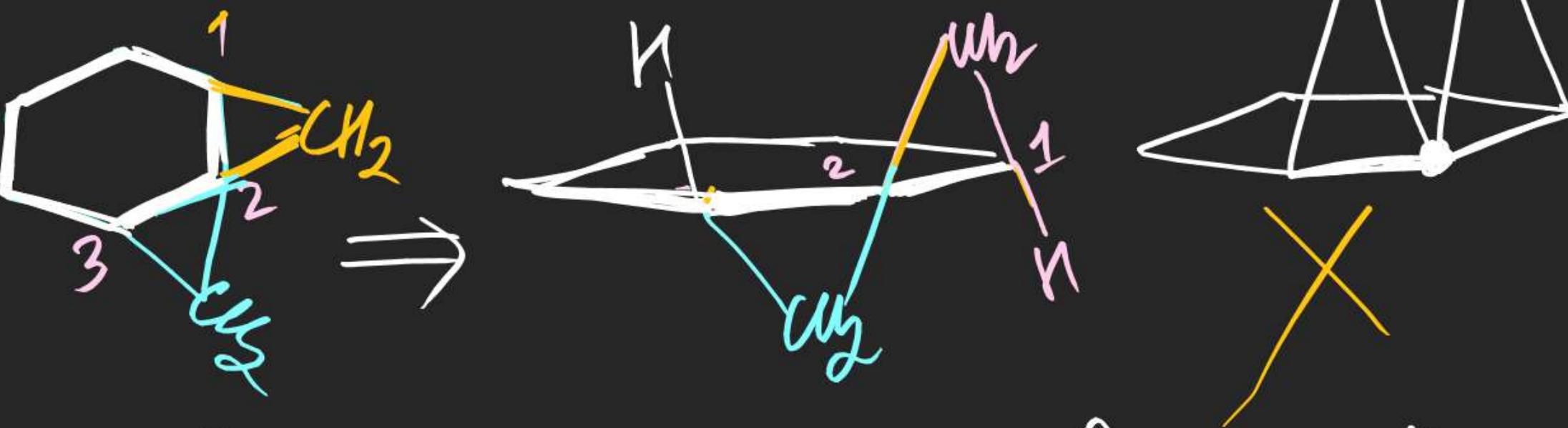
(72) NO

(73) Yes

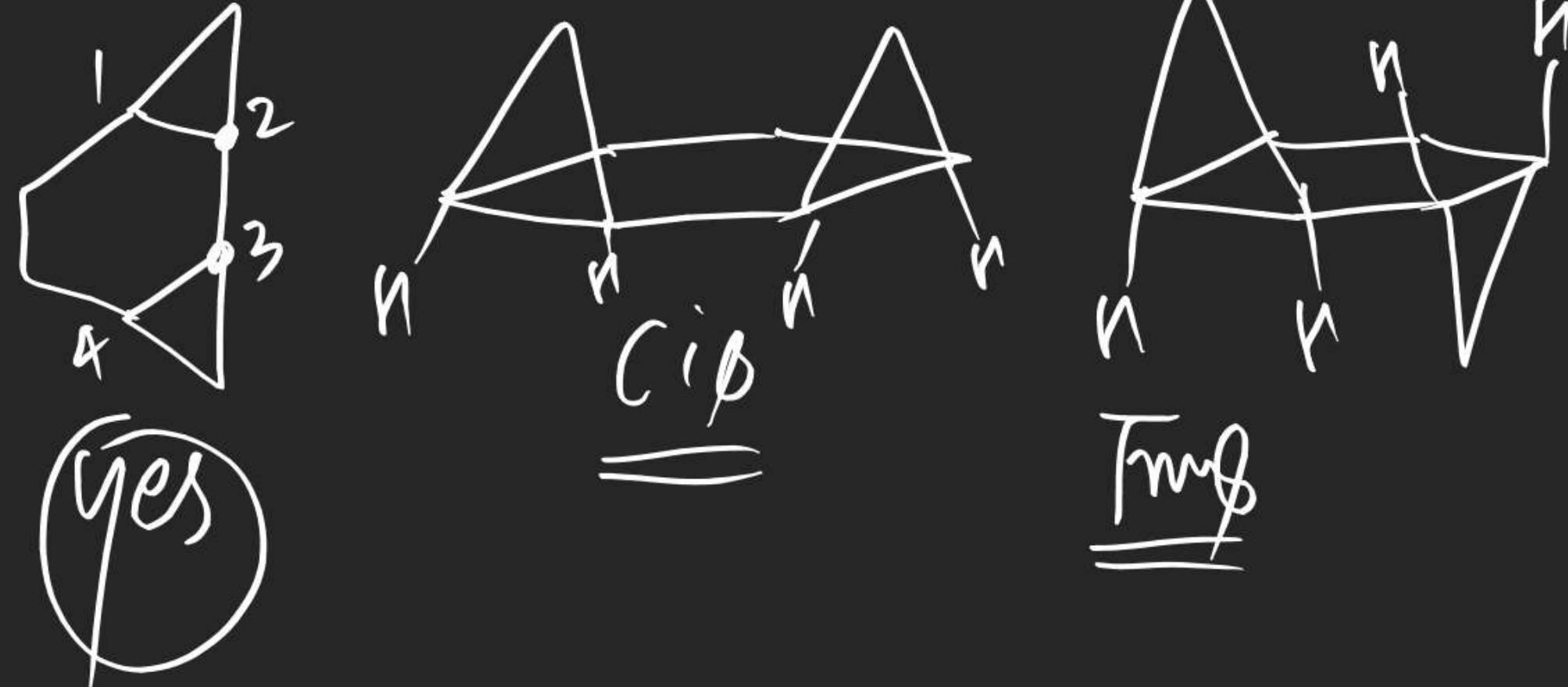


# STEREOISOMERISM

(77)



(78)



# STEREOISOMERISM

(79) yes

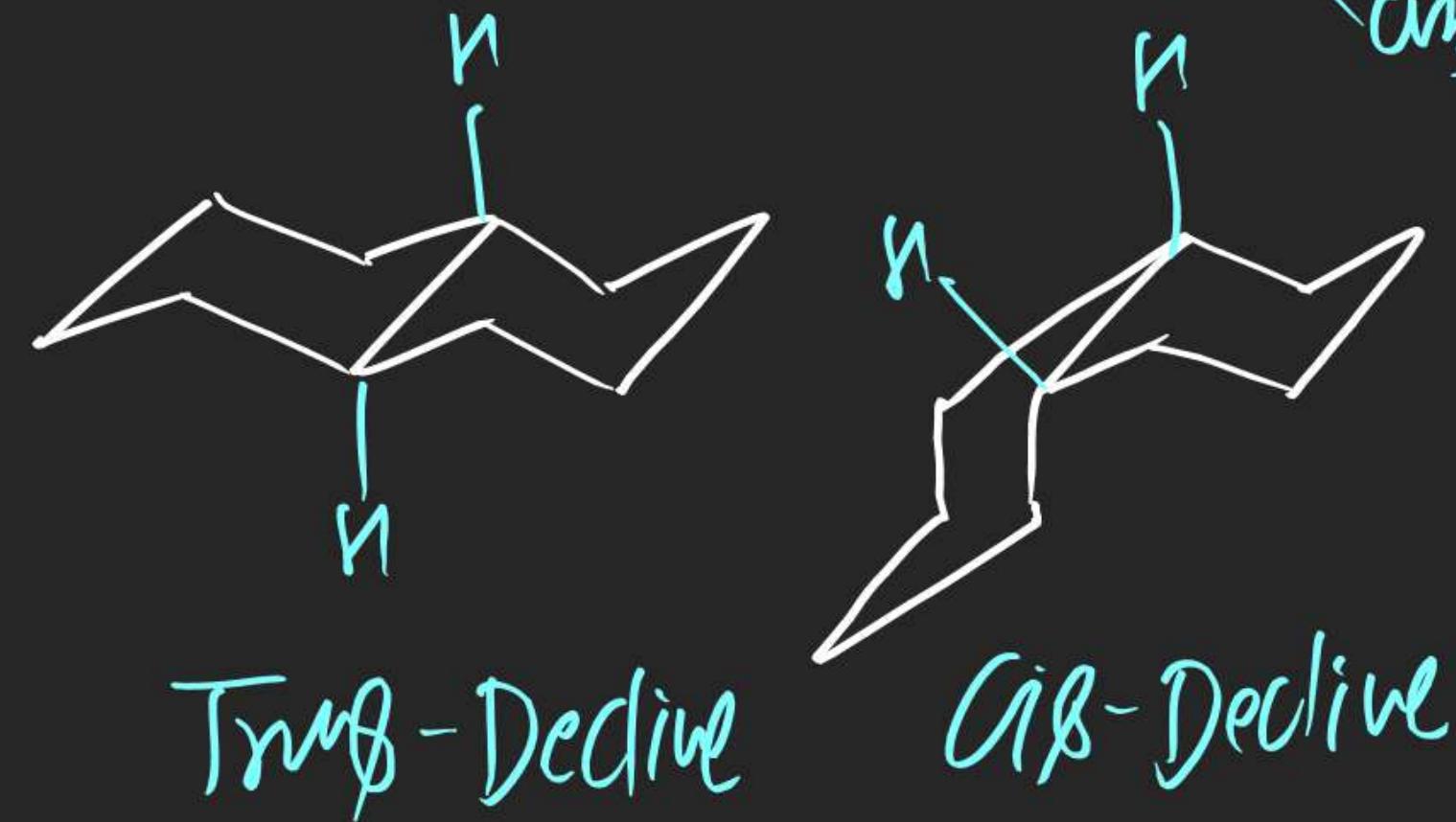
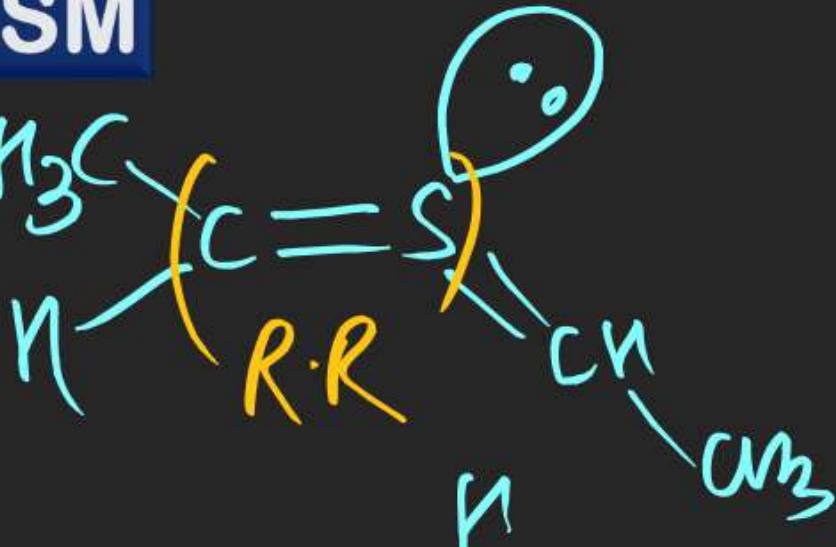
(80) yes

(81)



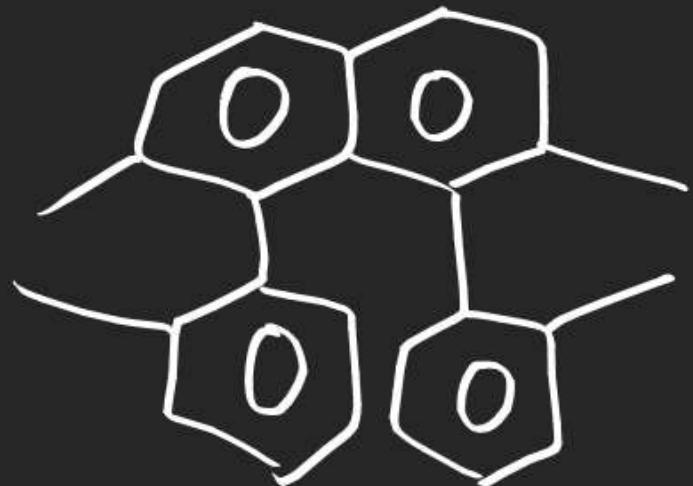
Decline

(82) yes

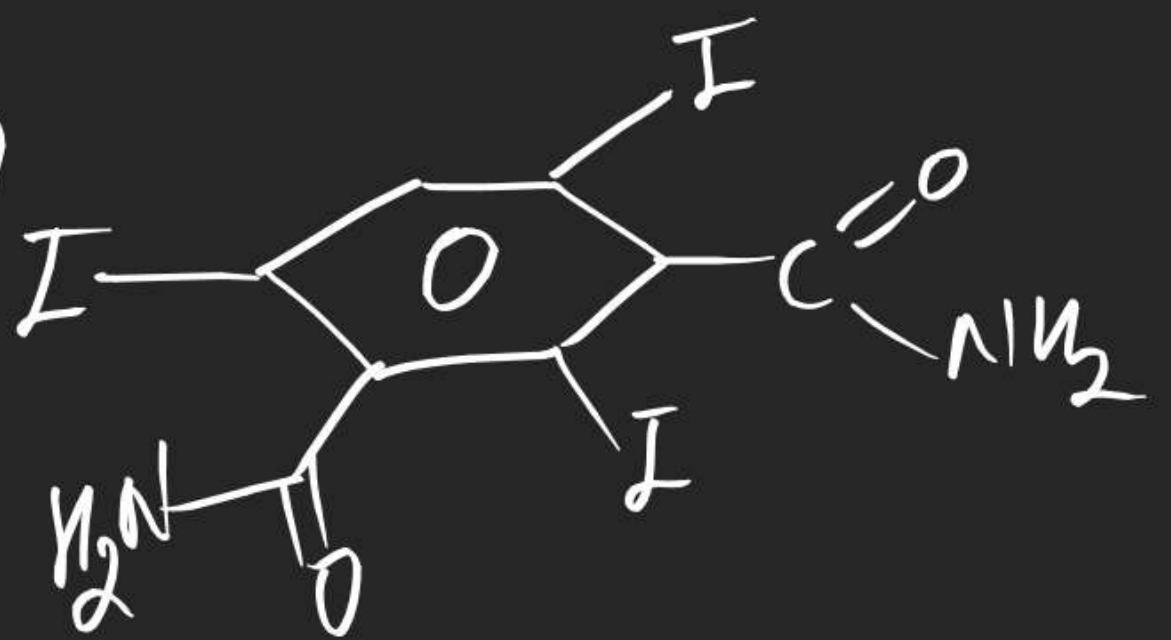


## STEREOISOMERISM

(83)



(84)

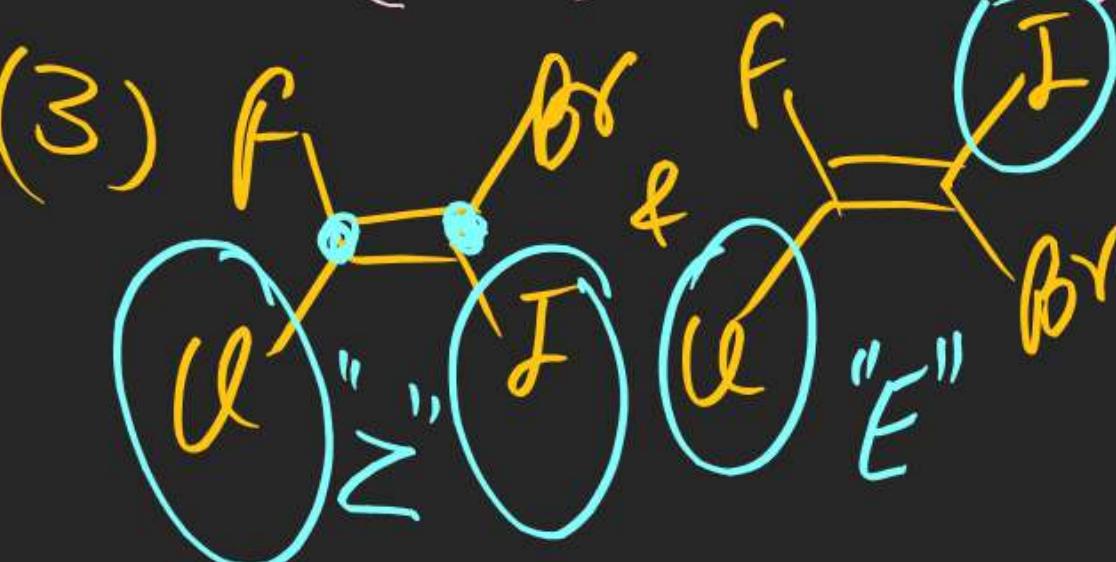
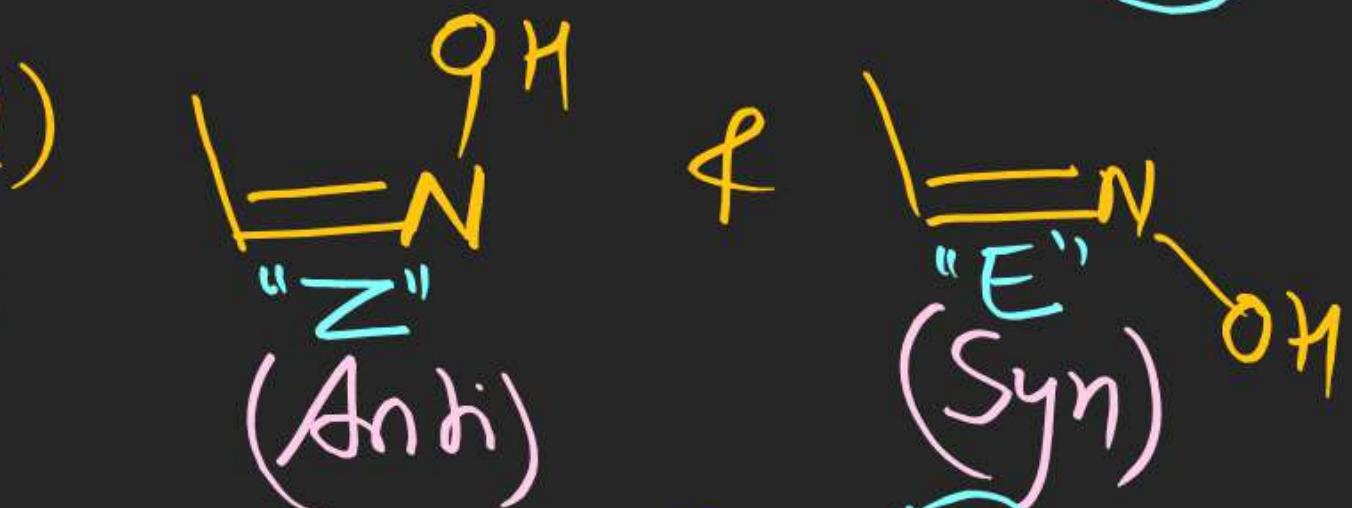
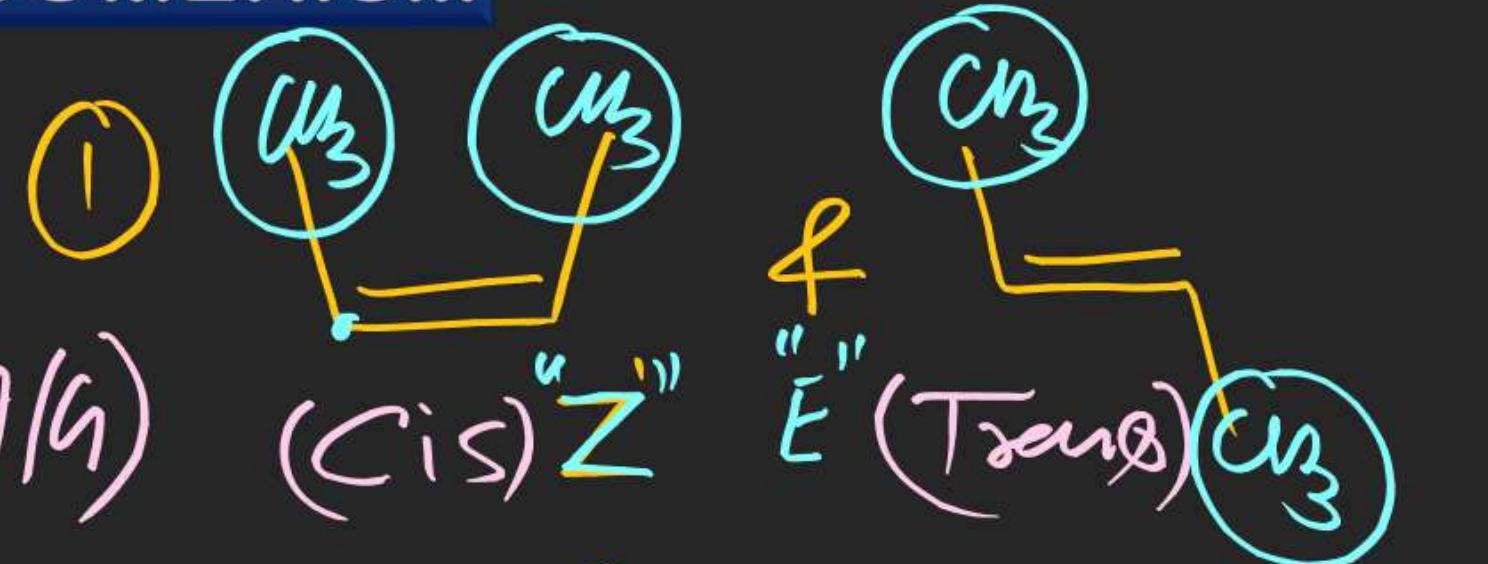


# STEREOISOMERISM

(#)  $E \& Z$  system:

$E \Rightarrow E$ ntermann  $\Rightarrow$  opposite  
 { higher CIP Priority A/G }

$Z \Rightarrow Z$ usmann  $\Rightarrow$  Together  
 { higher CIP Priority A/G }



# (#) Cahn , Ingold & Prelog Rule :

(CIP)

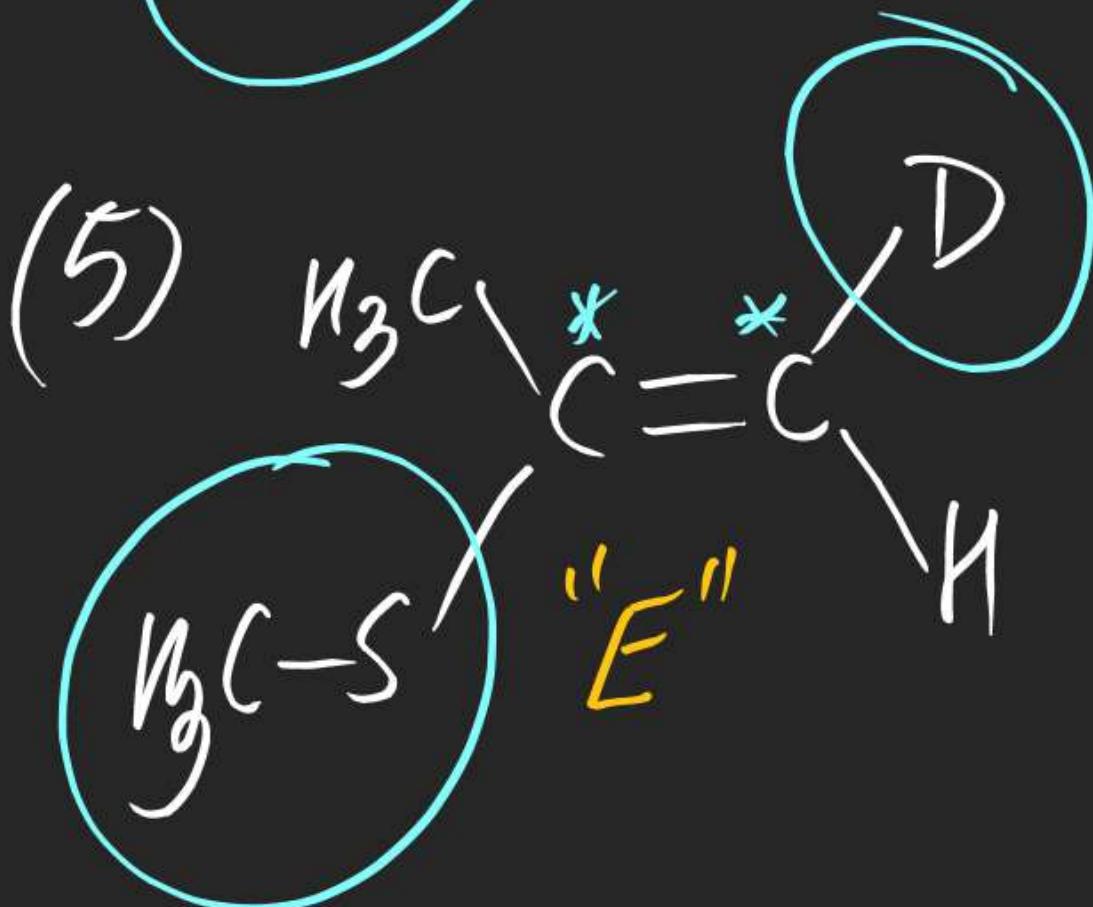
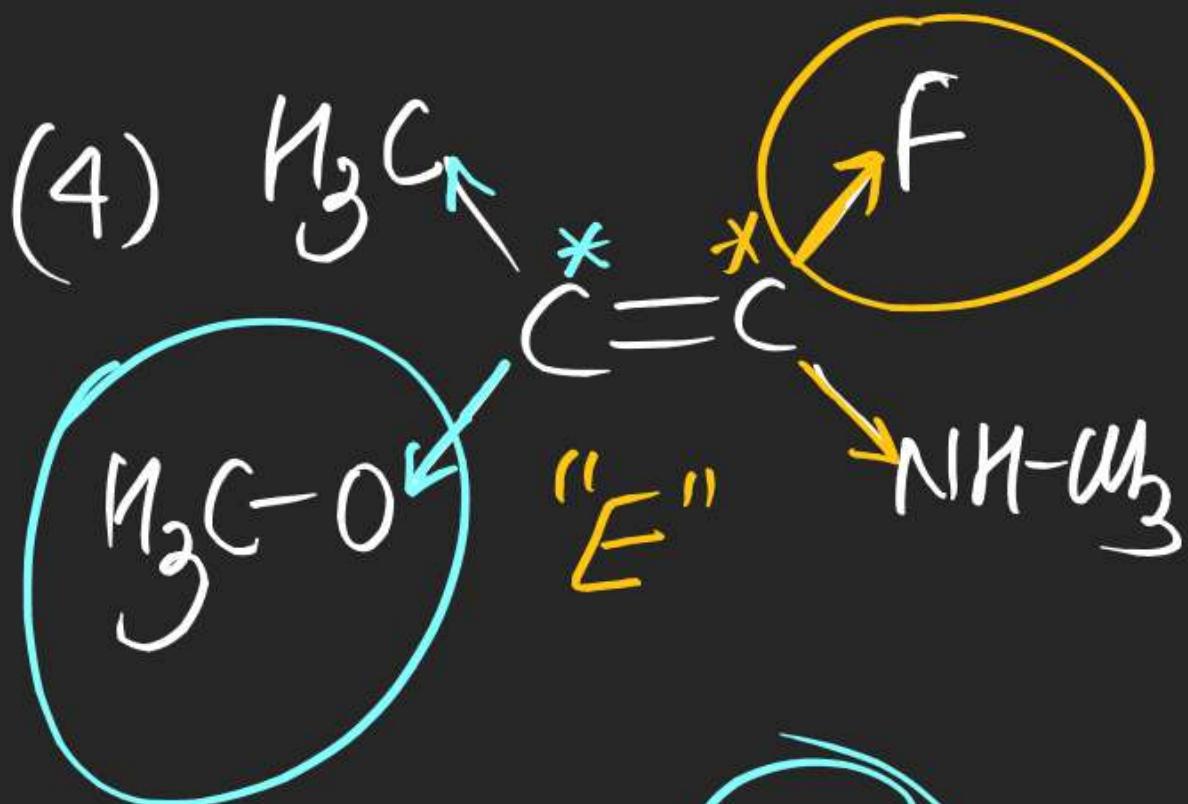
Rule-1:

Priority  $\propto$  At.no of directly attached atom.

Rule-2:

Priority  $\propto$  At.wt of directly attached atom

(in case of isotopes)



Rule-3: If directly attached atom is same, then observe next bonded atomic set, if any atom of a set contains higher (at. no) than (at. no) of atoms of other set then prior set gets higher priority.

