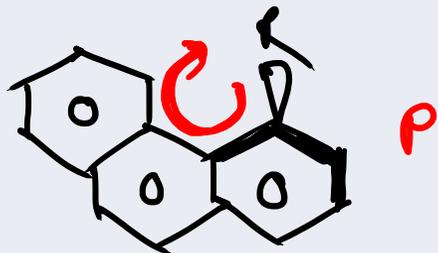
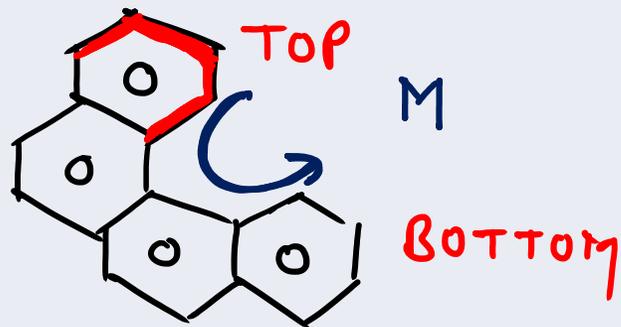




Helical molecules (Helical-chirality)



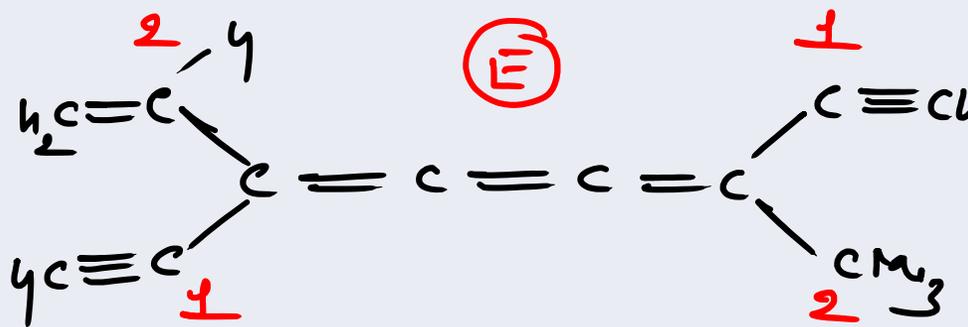
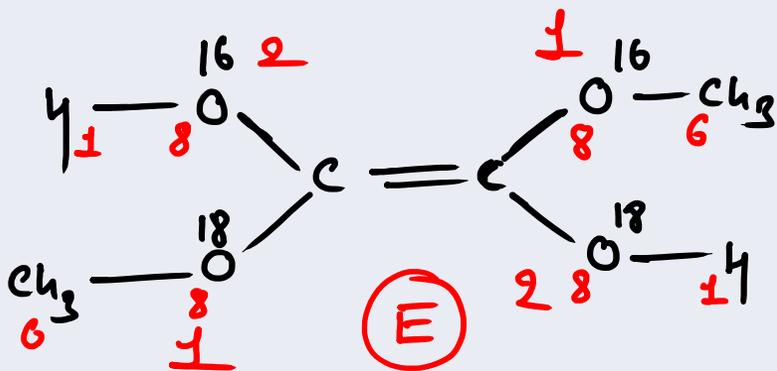
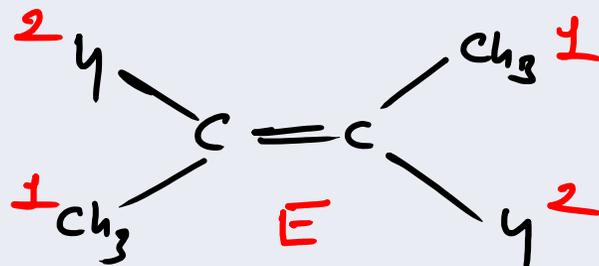
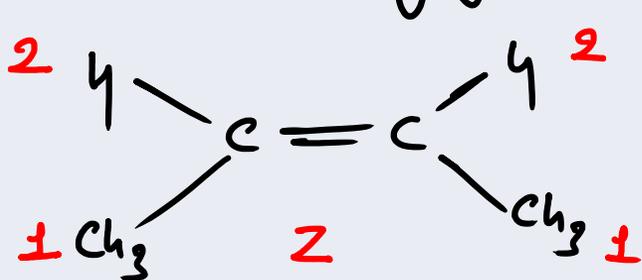
TOP \Rightarrow BOTTOM
 \Downarrow \Downarrow
Wedge Dash

Clockwise \Rightarrow P*

Anticlockwise \Rightarrow M*

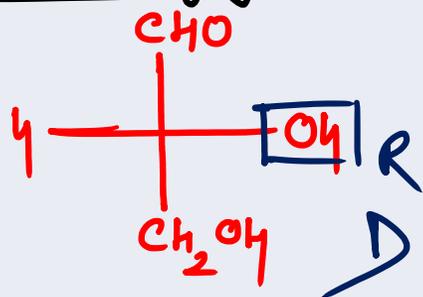


E/Z Configuration





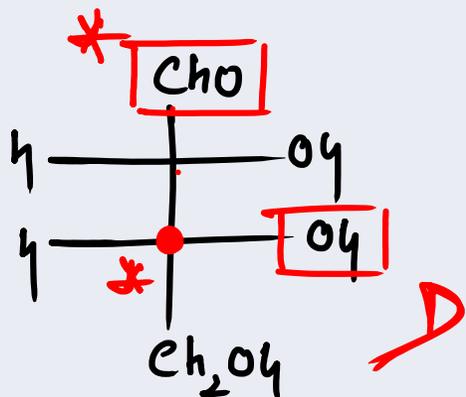
D/L Configuration

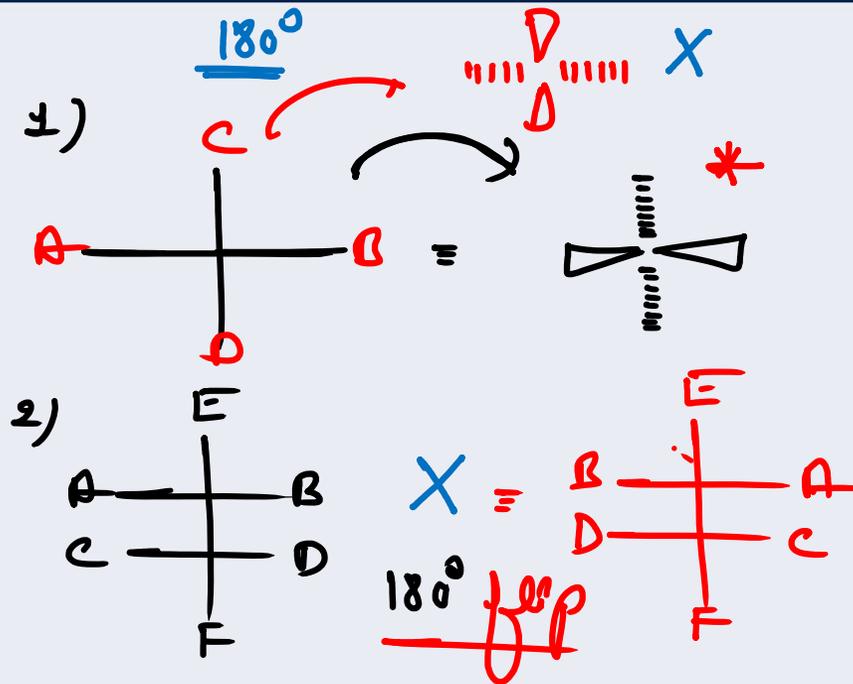
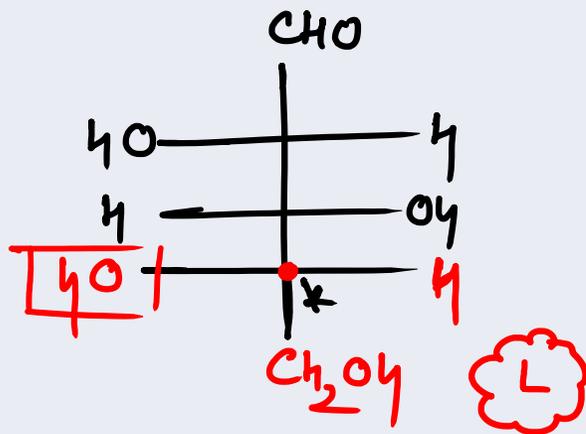
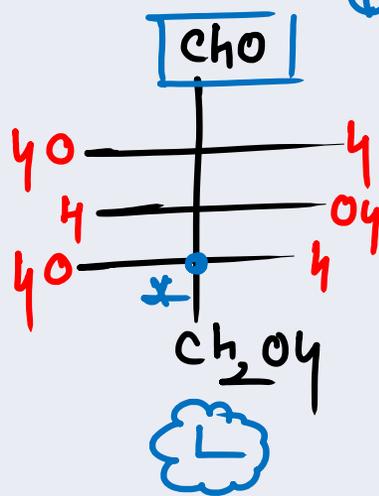
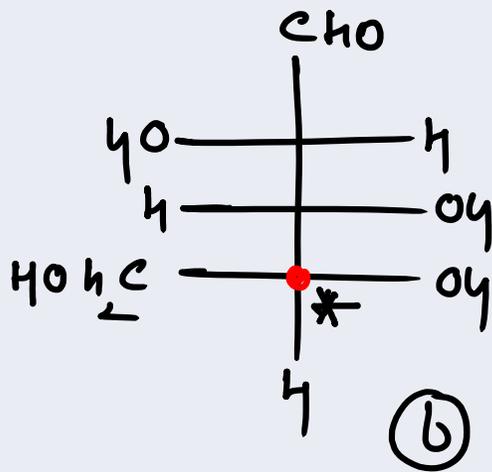
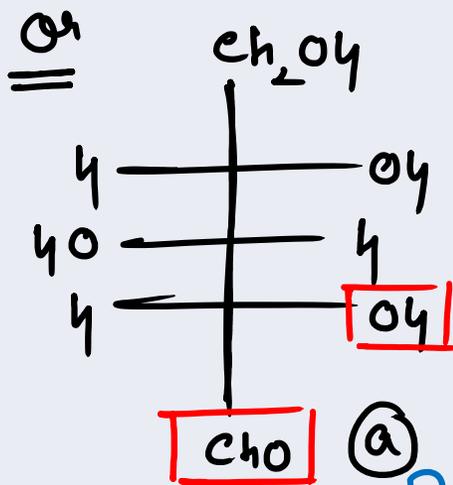


1) Most oxidised group would be on **TOP**

2) Max. no. of carbons should be on vertical

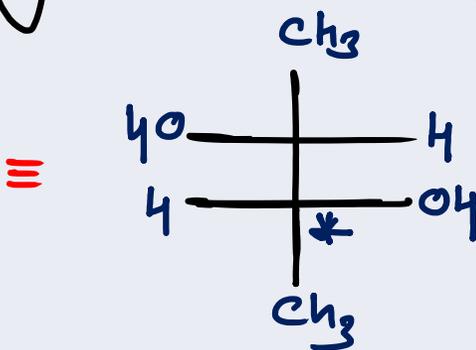
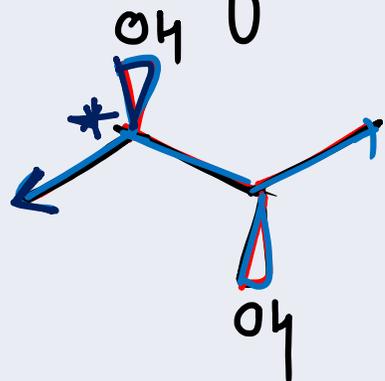
Right - OH \curvearrowright
Left - OH L



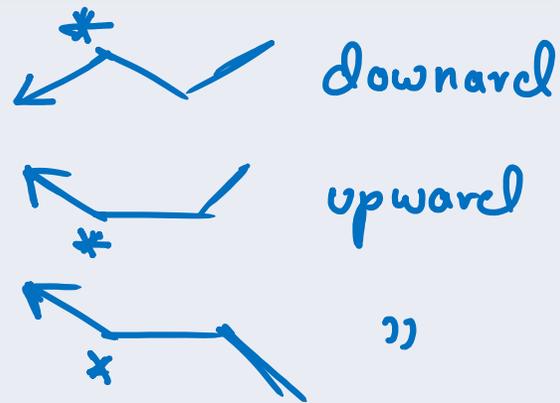




Conversion of wedge-dash to fisher



(2)



(1) Back bone . * (anti) OR

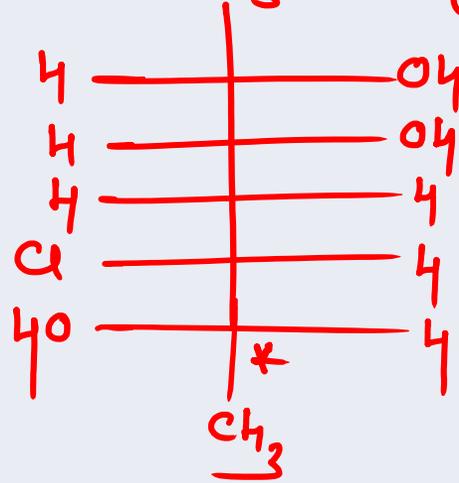
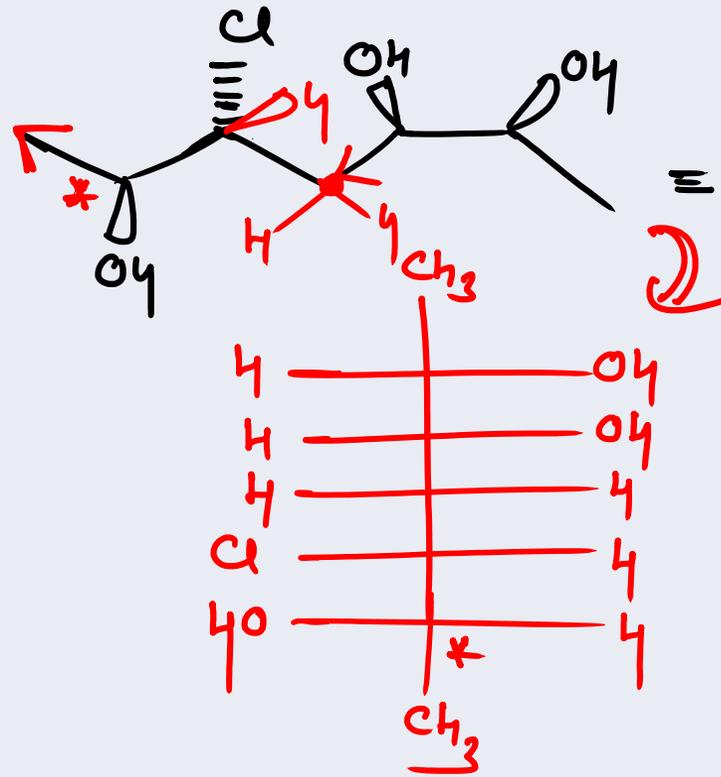
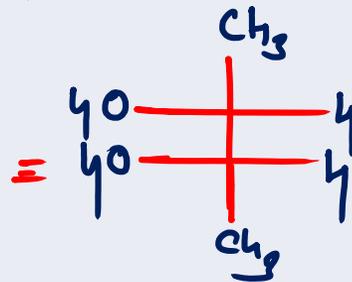
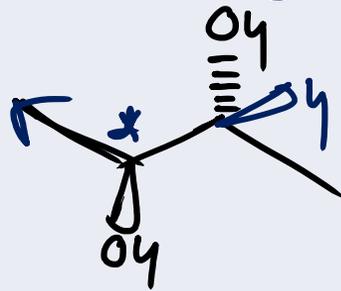
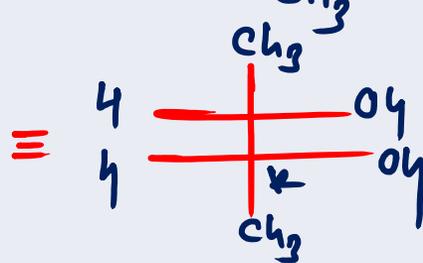
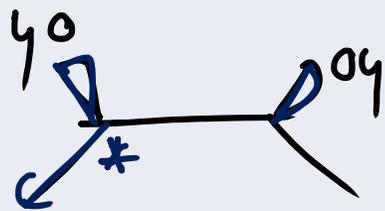
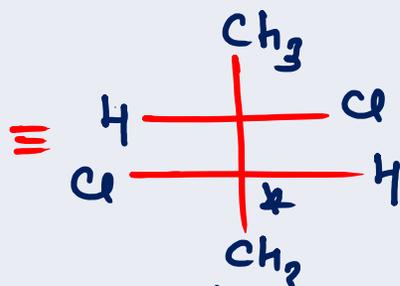
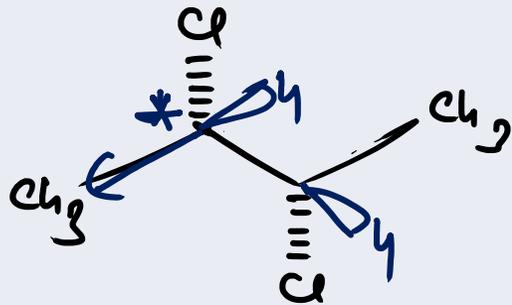
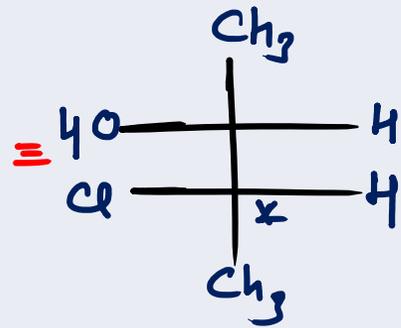
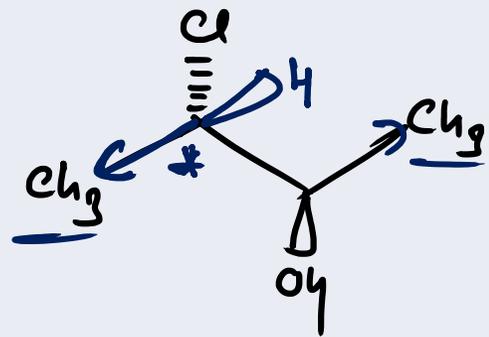
* (syn)

⇒ * (downward) will go Right



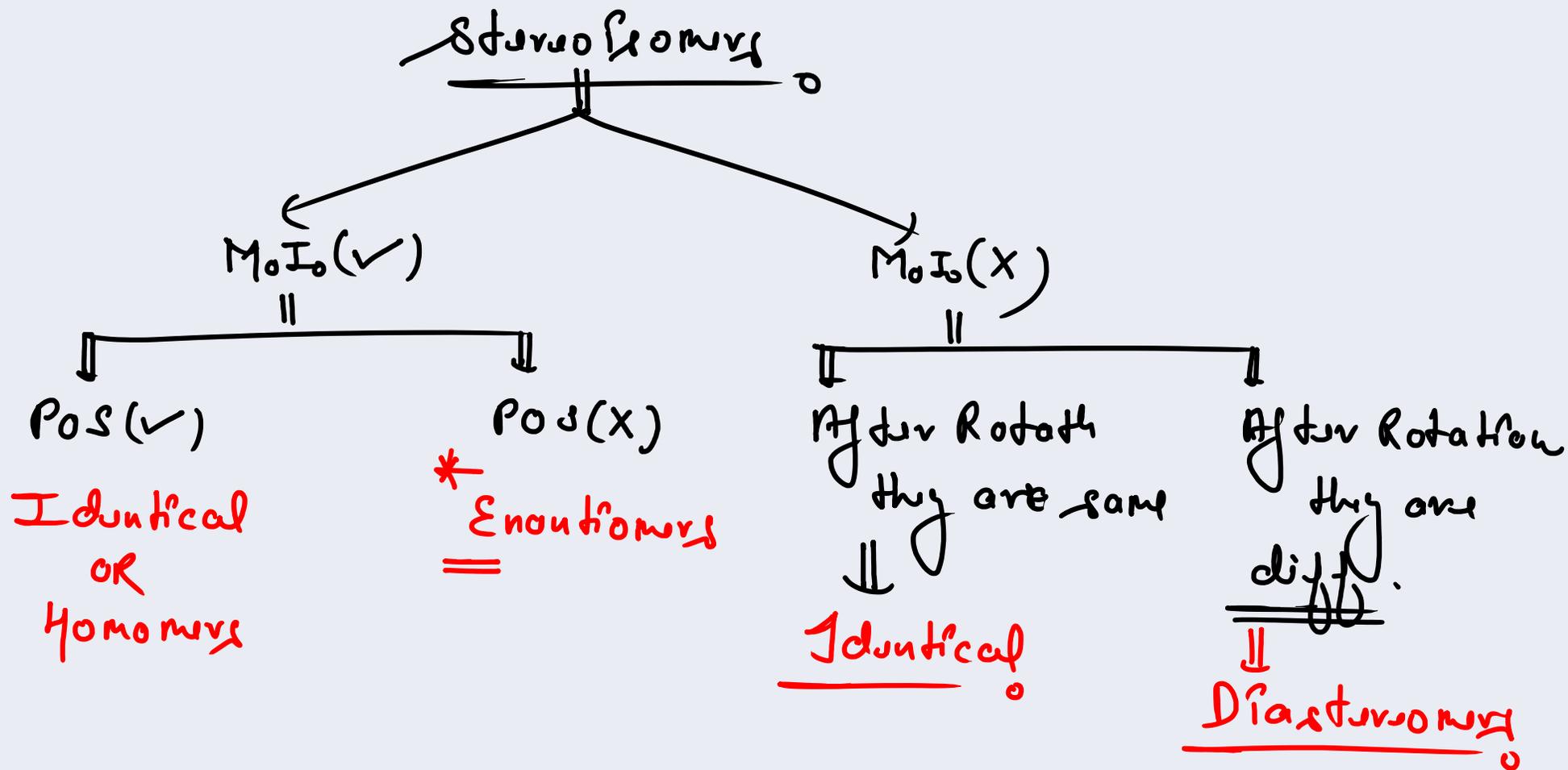
(Anti) (wedge) valency would go "opposite"

(syn) (wedge) " " "same"



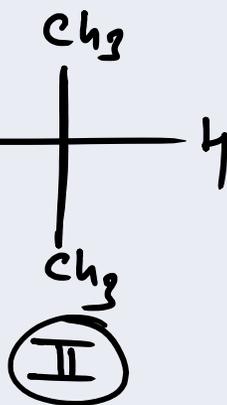
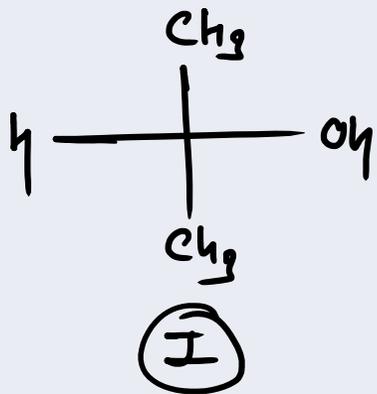


Relationship b/w molecules*





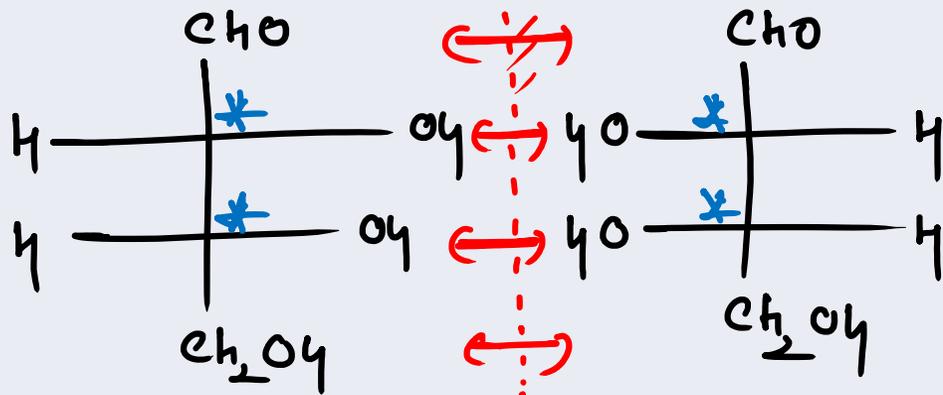
|| Q₄



M_oI_o ✓

P_oS ✓

Identical *



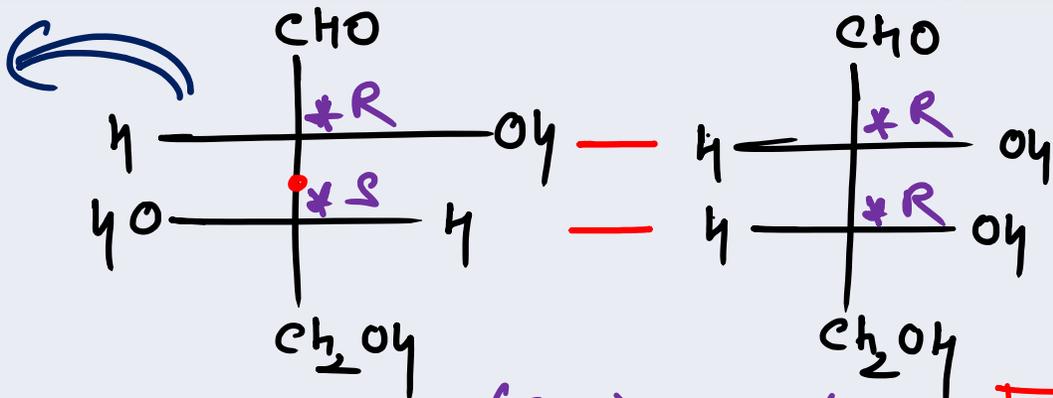
M_oI_o ✓

P_oS ✗

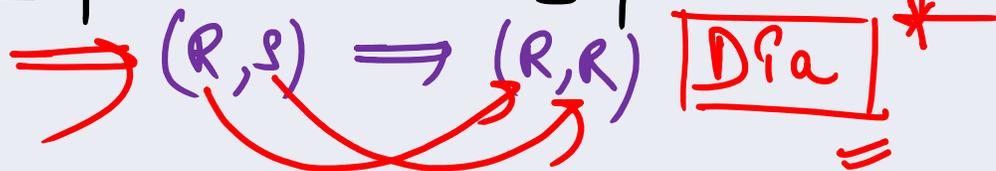
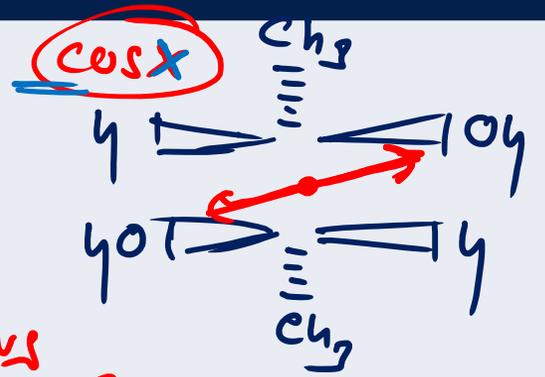
Enantiomers



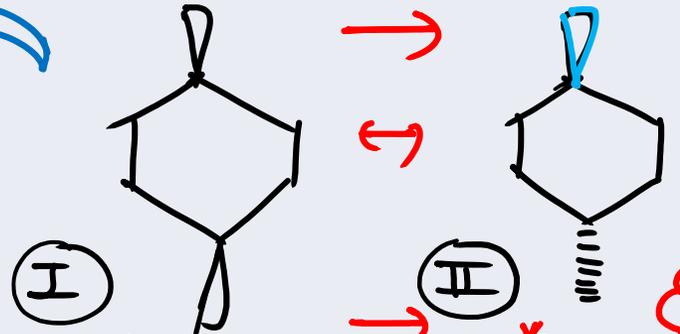
OoAo



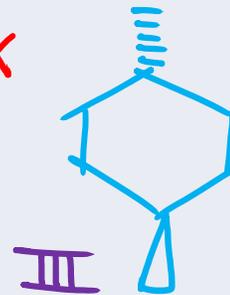
* MoI₀ X
 Rotation X
 Diastereomers



OoI₁



MoI₀ X
 Rotation X



II ≡ III Identical

* cis
 * trans
Dia *

Dia

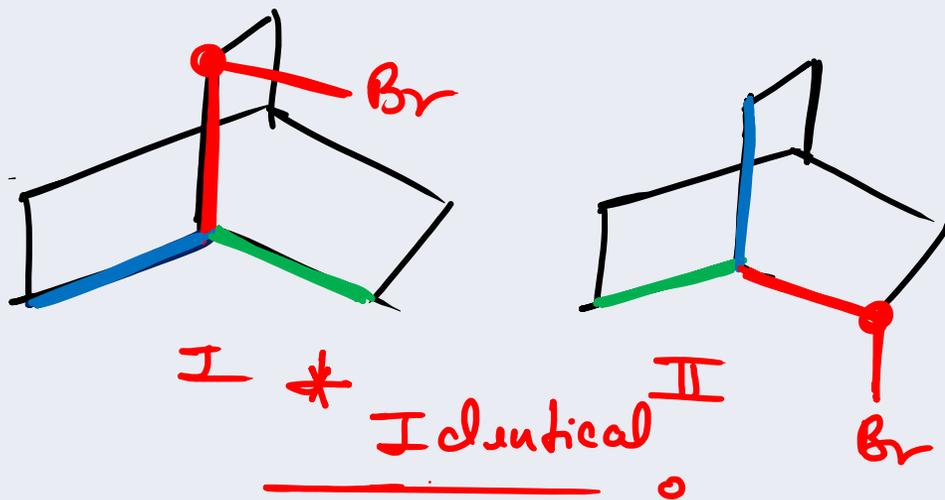


(1) Molecules can be $0010/0010$ if they are Dia.

(2) * All GoTo are Diastereomers. True

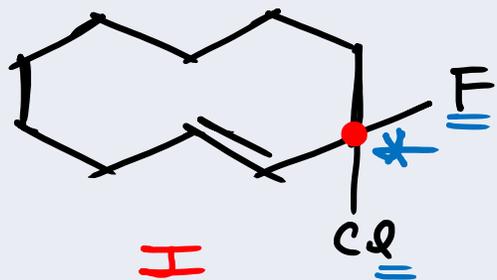
* All Diastereomers are GoTo False

Q4

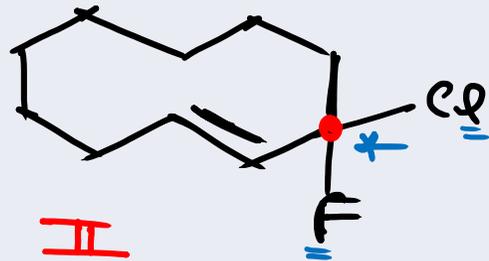




Q9



I



II

Dfa

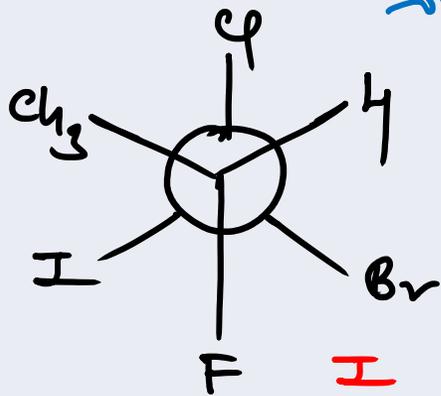
(trans, -)

(trans, -)

same

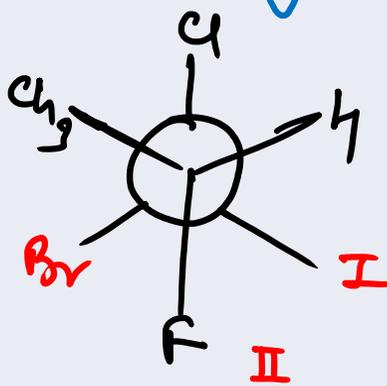
change

Q9

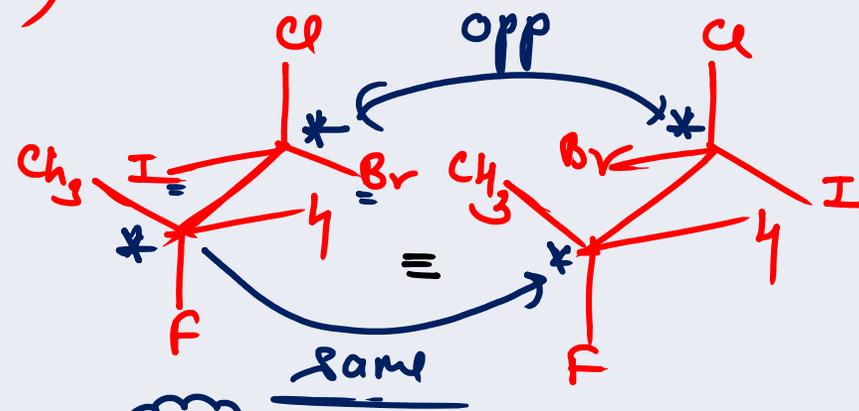


I

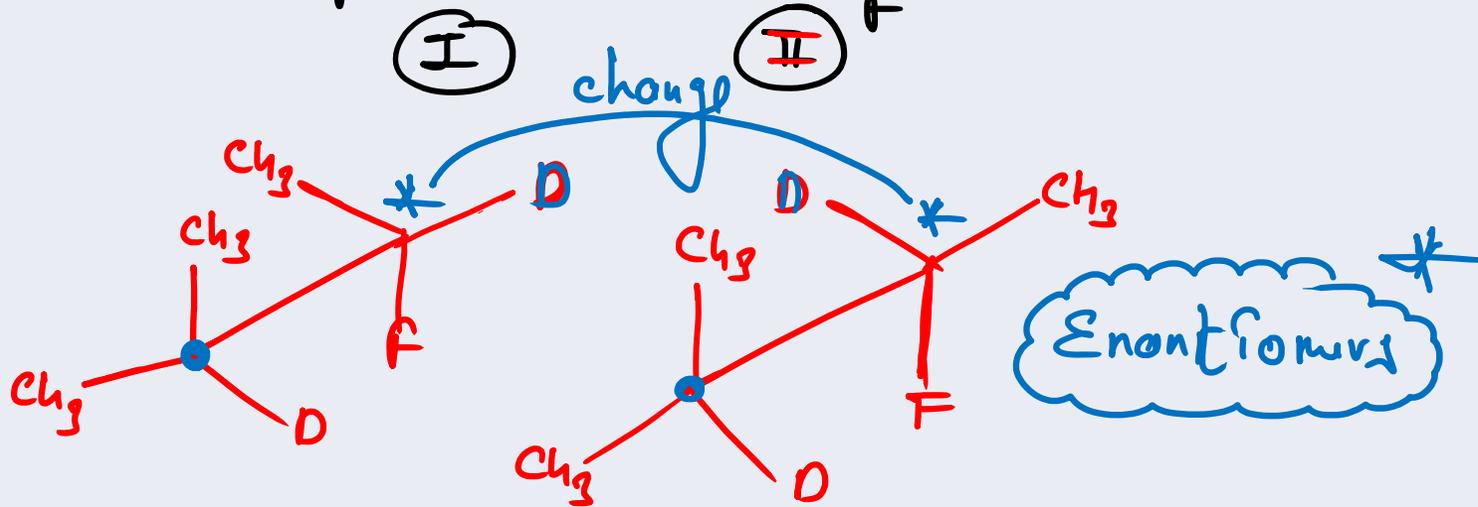
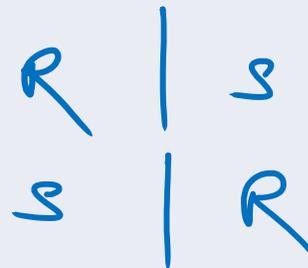
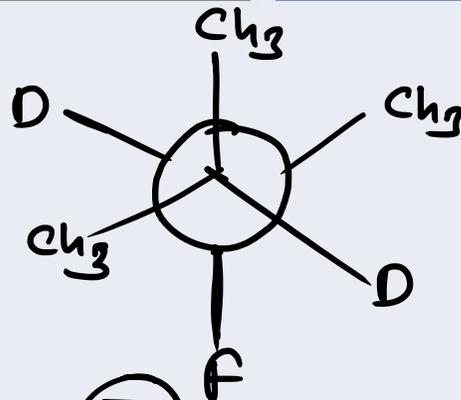
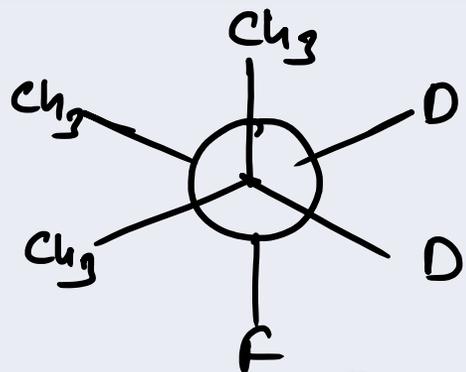
≡

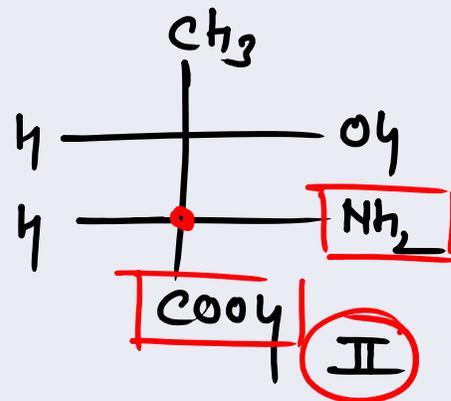
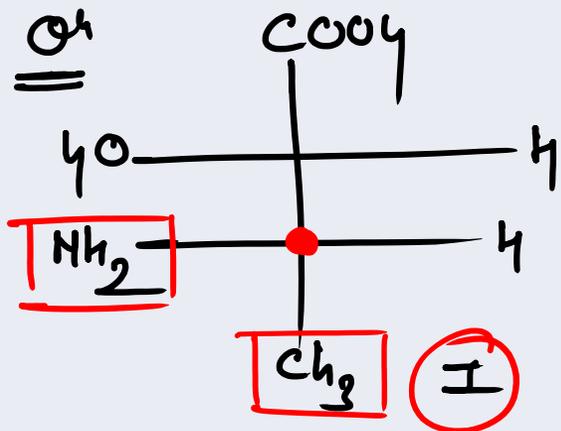


II

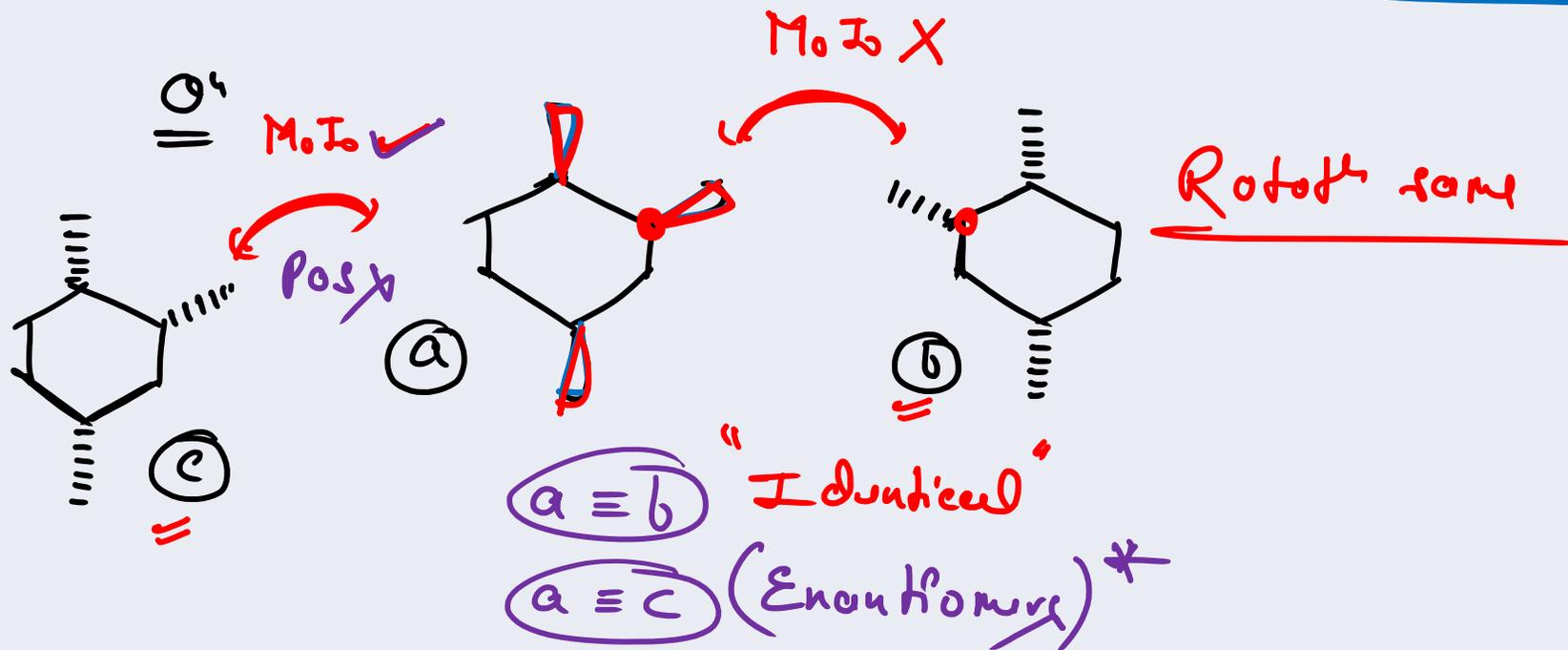


Dfa



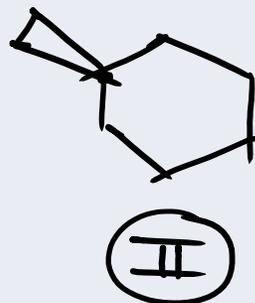
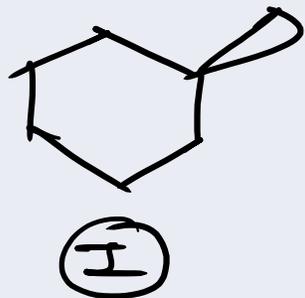


* Atom-to-Atom *
connectivity
⇓
Constitutional





11Q



Identical .

MoJo
* POS ✓

Thank you

































