

(2)



n-pentane



isopentane

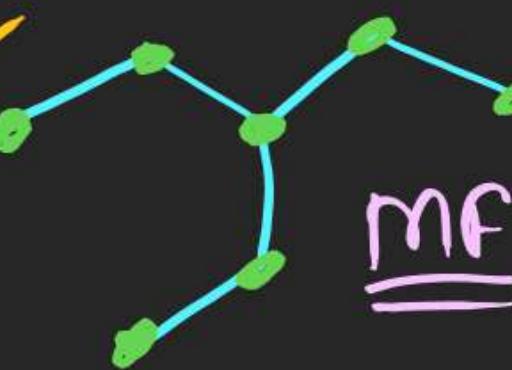


neo-pentane

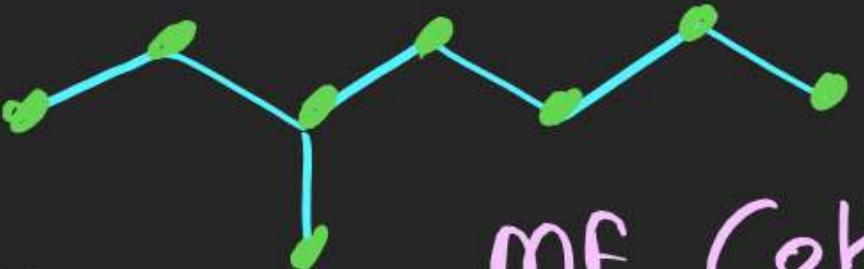
Chain Isomers

(Homologues),
Not isomers.

(3)

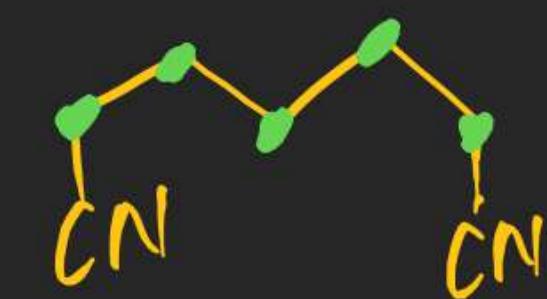


MF C₇H₁₆



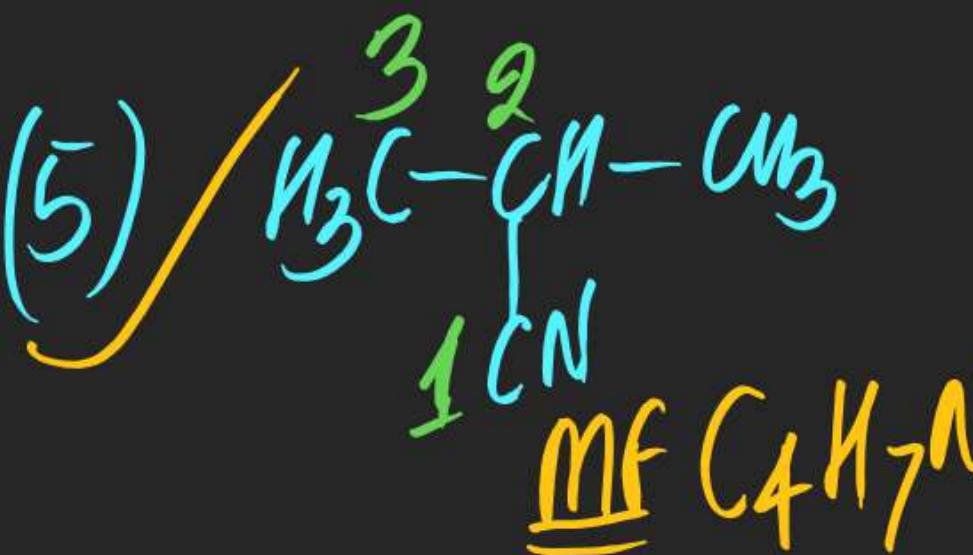
MF C₈H₁₈

(4)

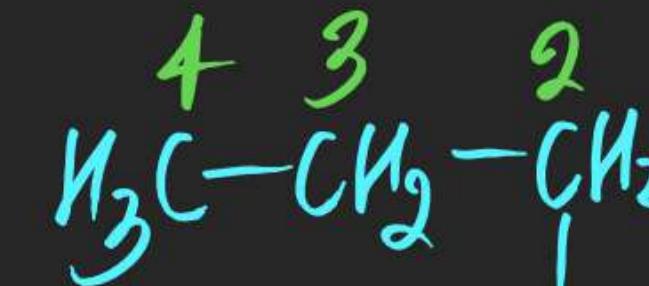


(Not isomer)

(5)

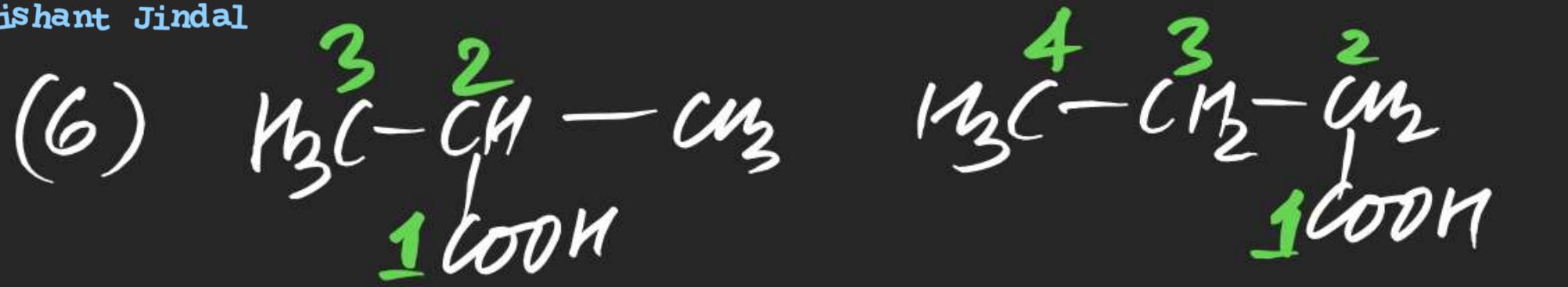


MF C₄H₇N



MF C₄H₇N

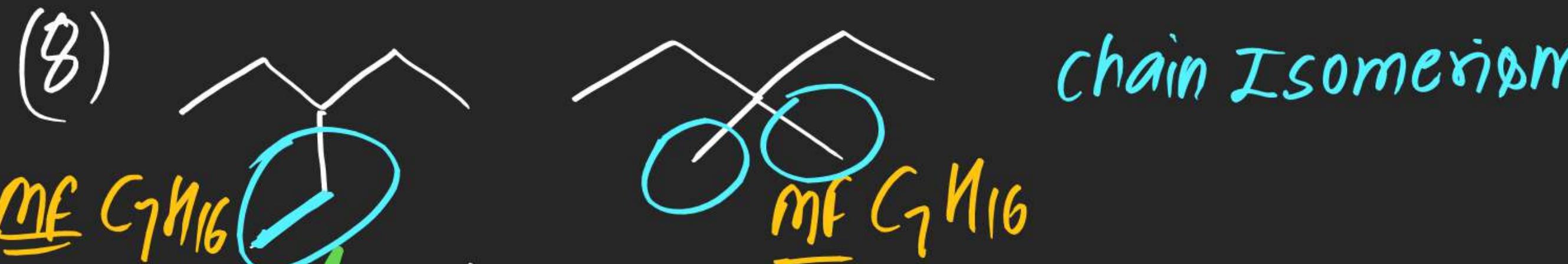
(chain Isomers)



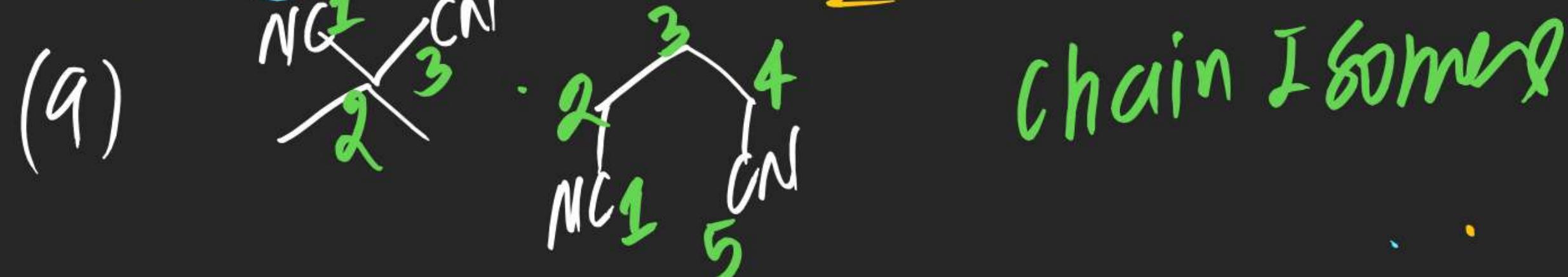
Chain Isomers



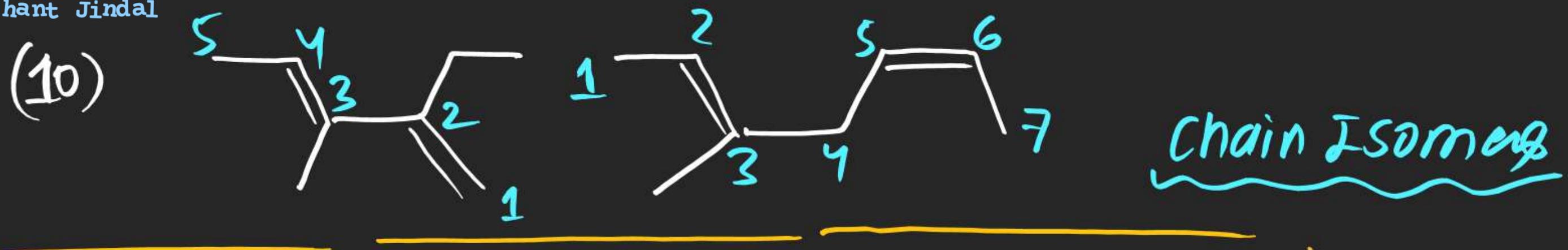
Chain Isomers.



chain Isomerism



chain Isomers

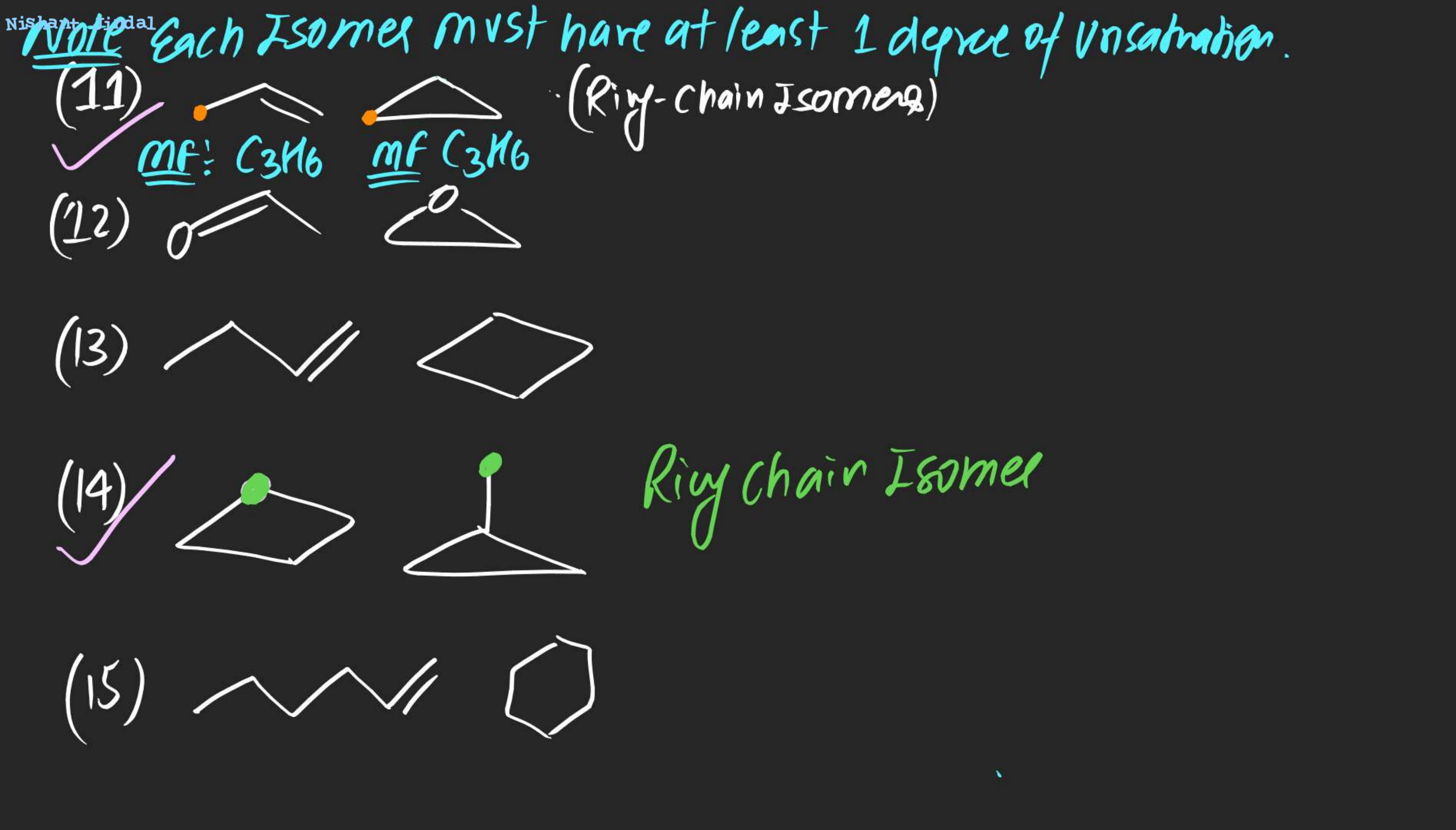


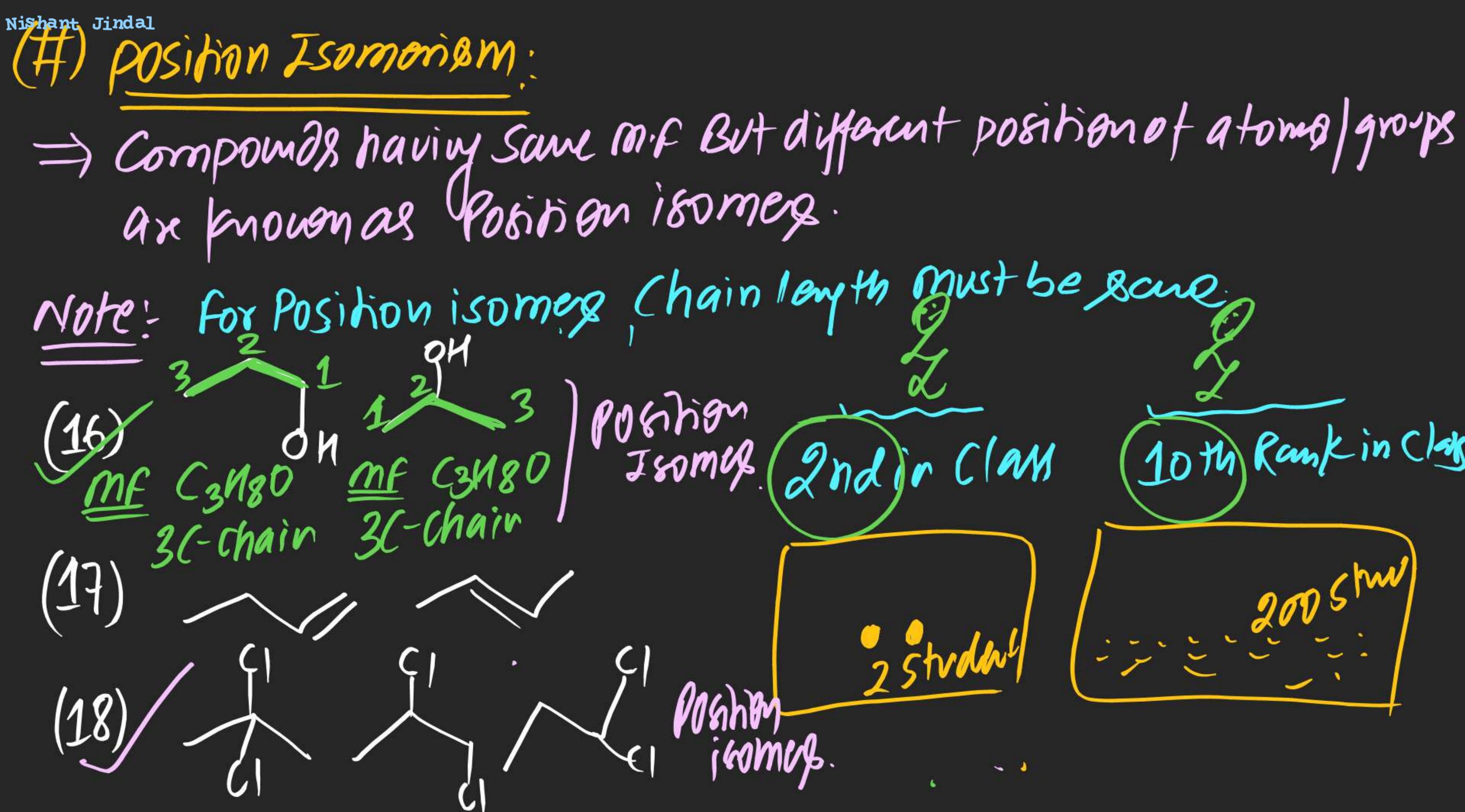
(#) Ring chain Isomerism:-

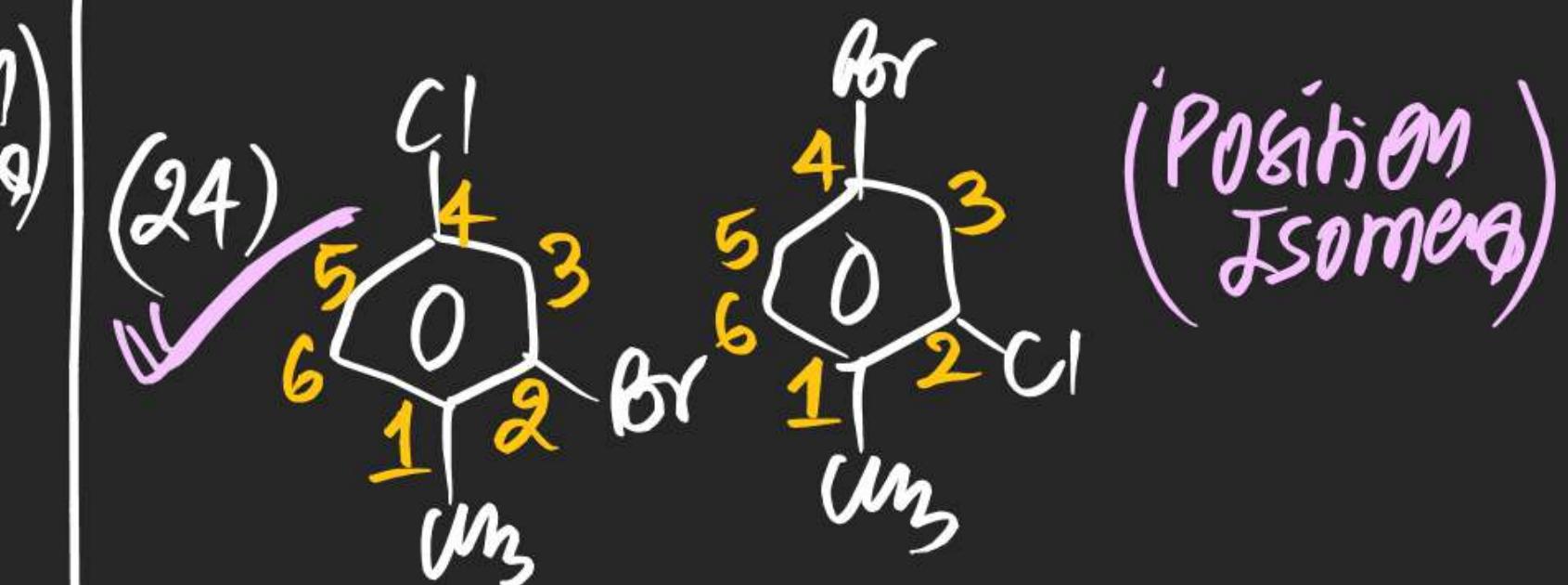
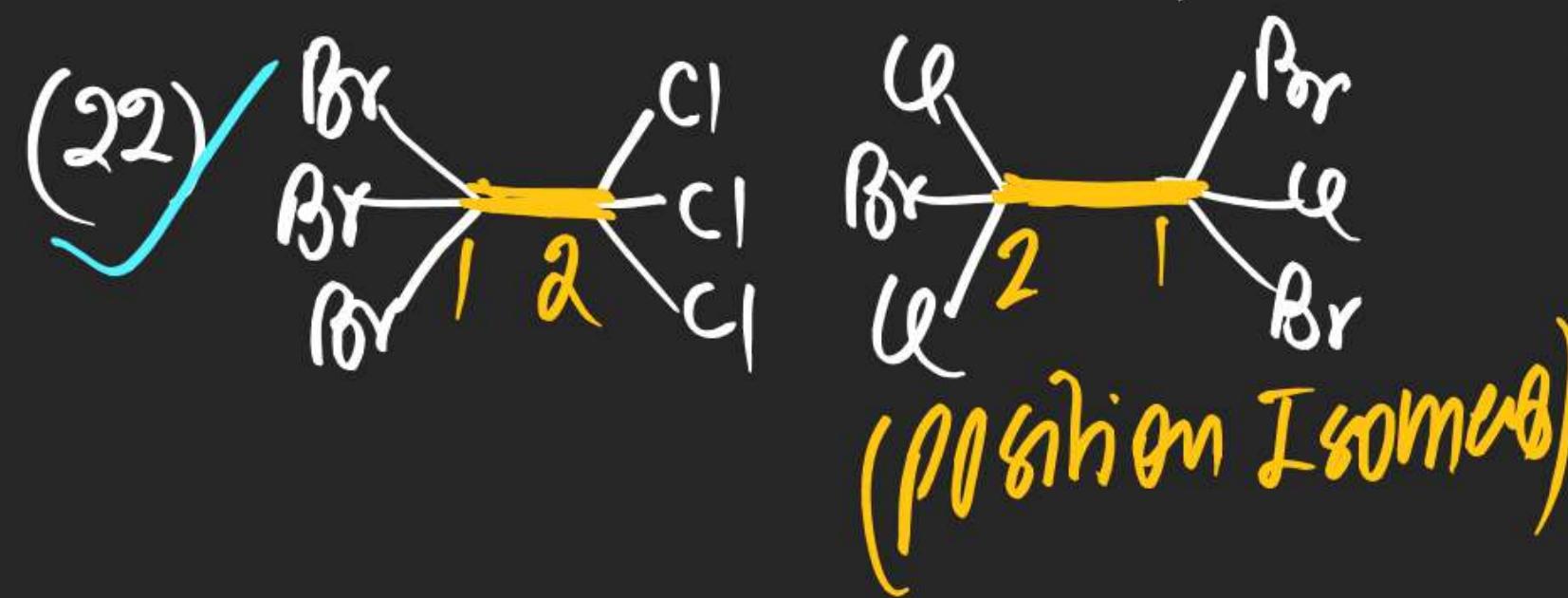
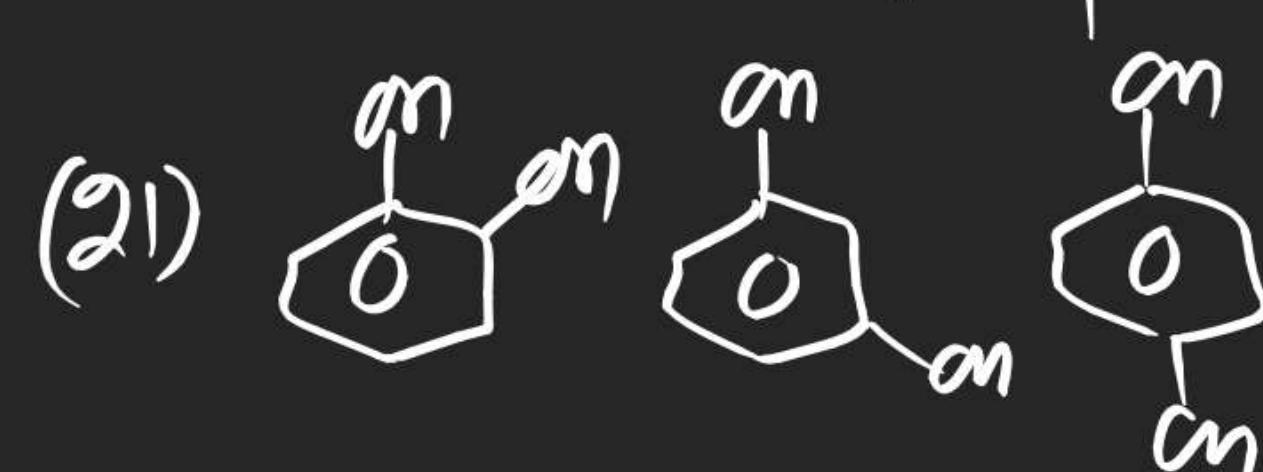
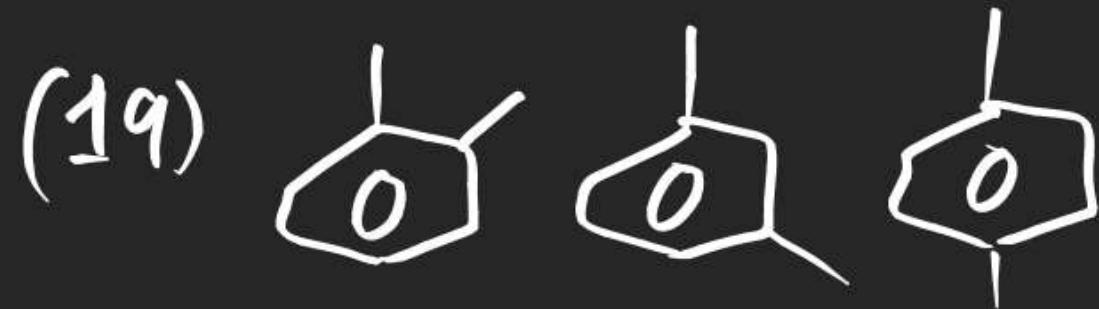
⇒ Compounds having same MF But difference in Ring & chain formate.

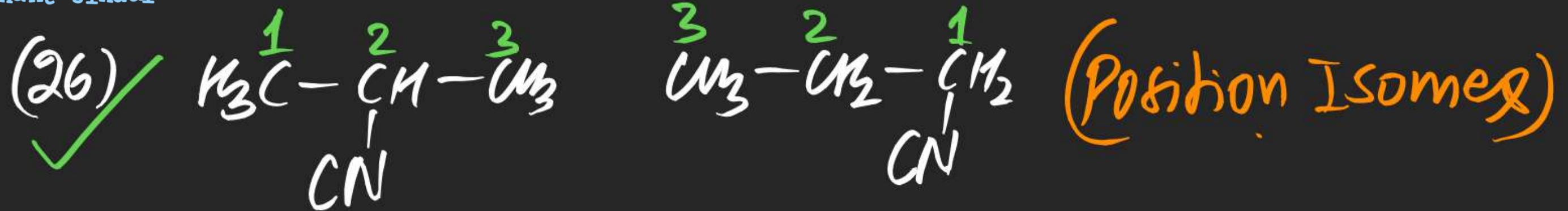
or

If any atom which is in acyclic segment in one isomer & in cyclic segment in another isomer then they are known as Ring chain isomers.



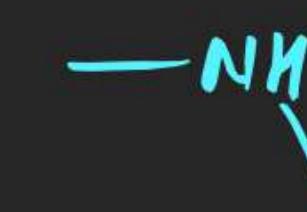




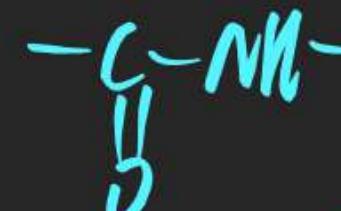
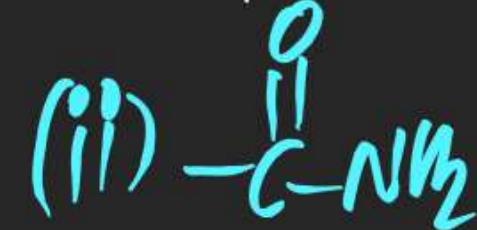


(#) Functional Isomerism: Compounds having same MF But difference in functional groups are known as functional isomers.

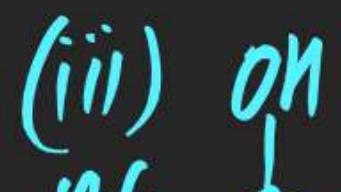
Note



diff. f-groups



diff. f-groups



diff. f-groups.



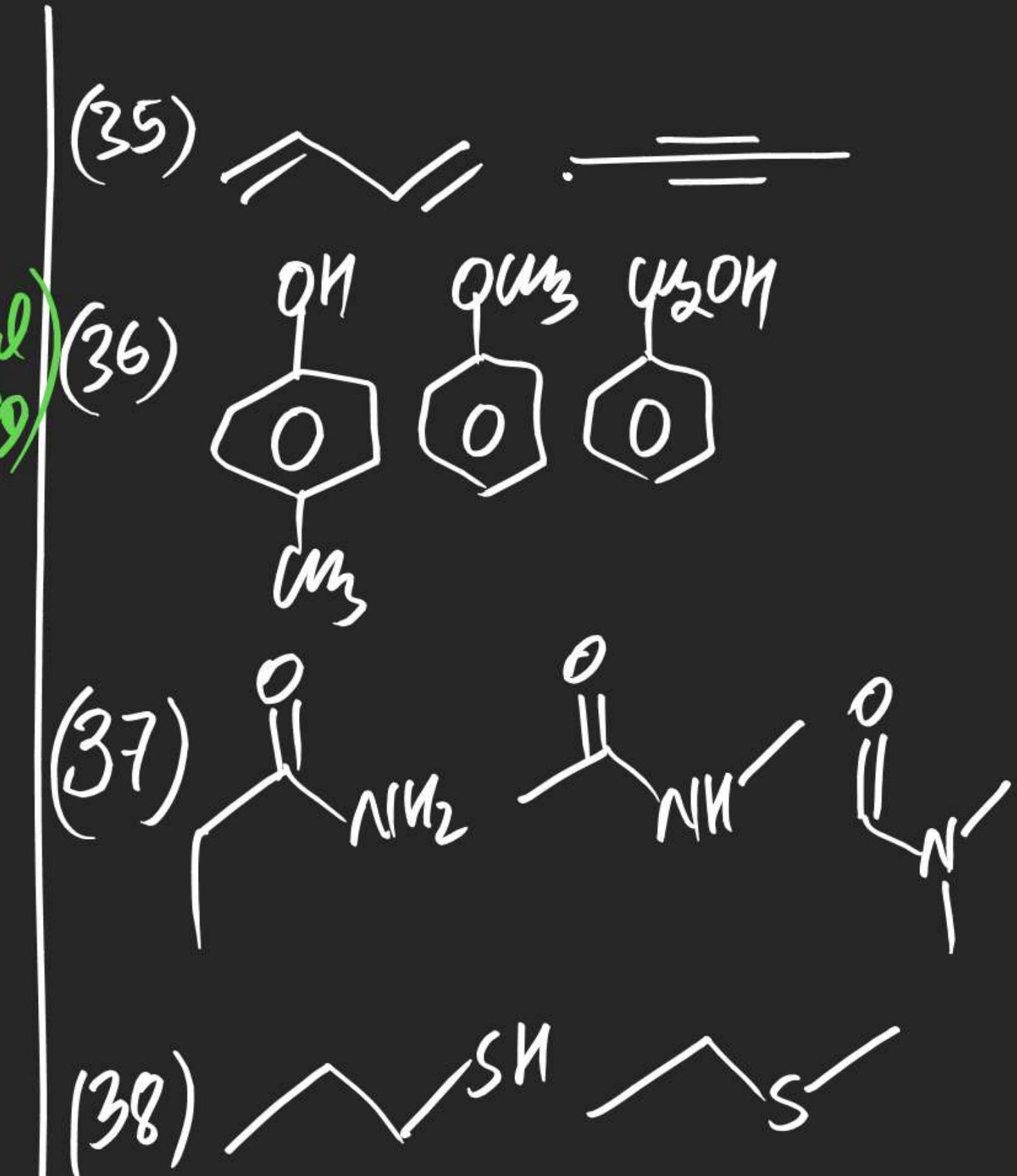
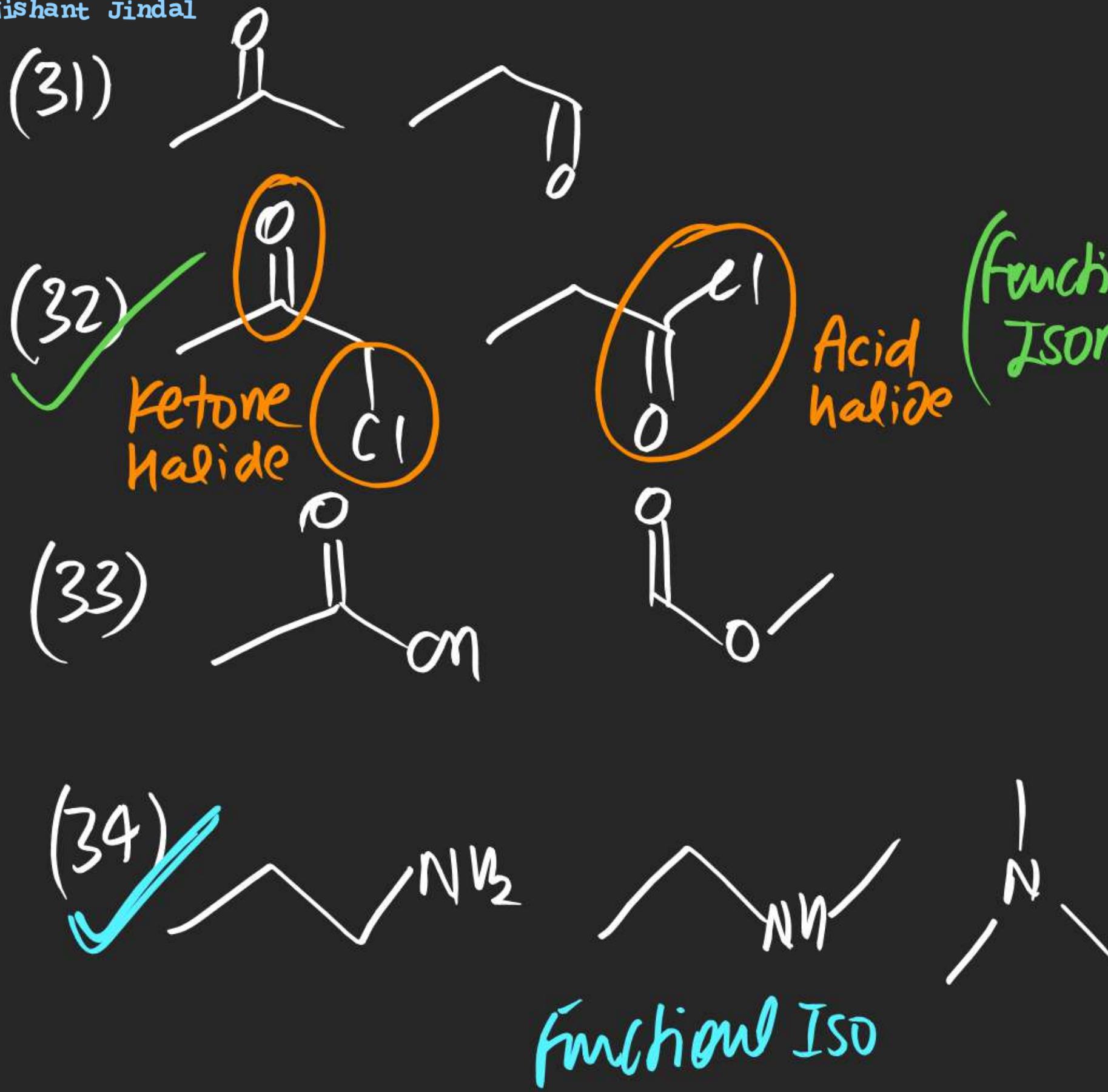
$$\text{MF} \Rightarrow \text{C}_2\text{H}_6\text{O}$$

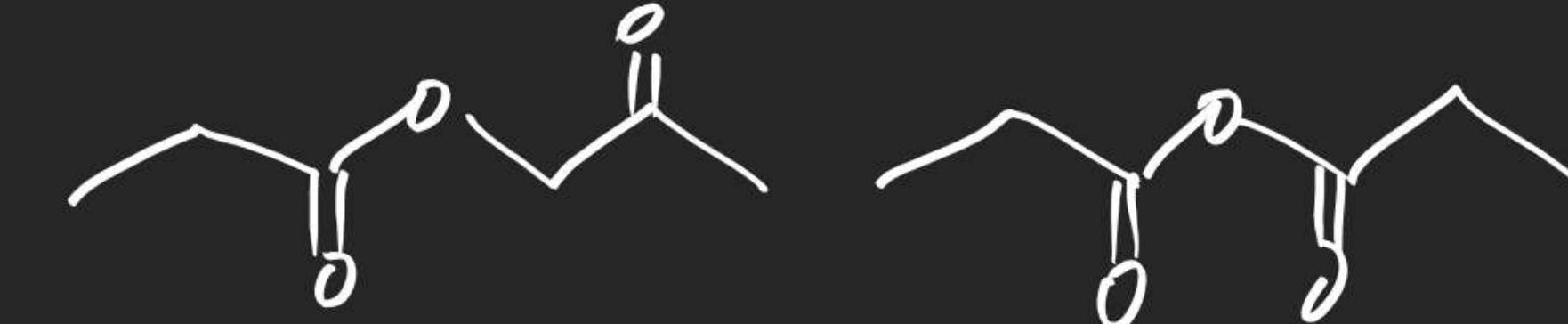


$$\text{MF} \Rightarrow \text{C}_2\text{H}_6\text{O}$$



(functional isomers)





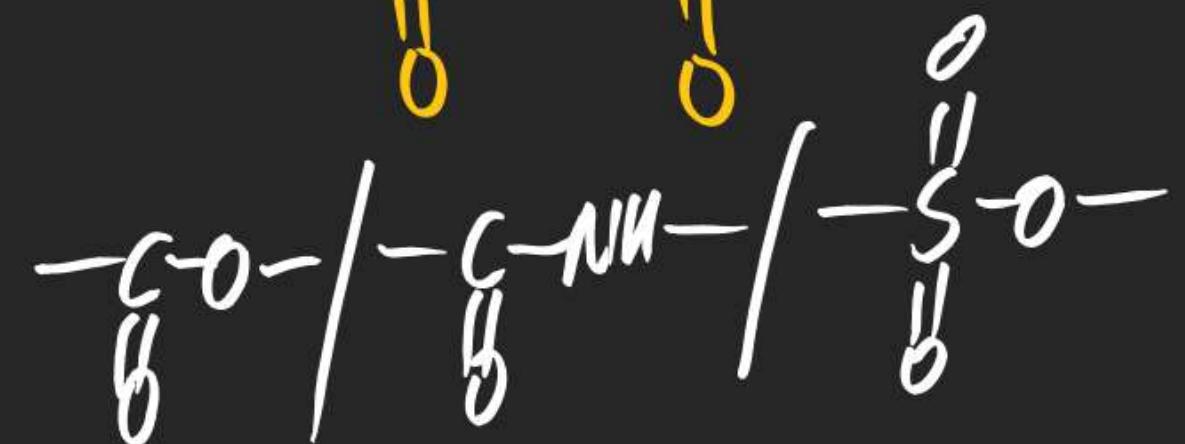
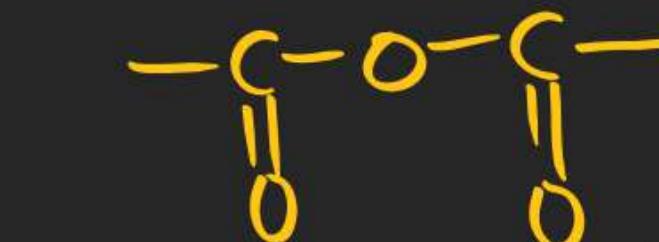
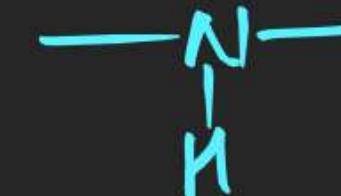
F-isomers

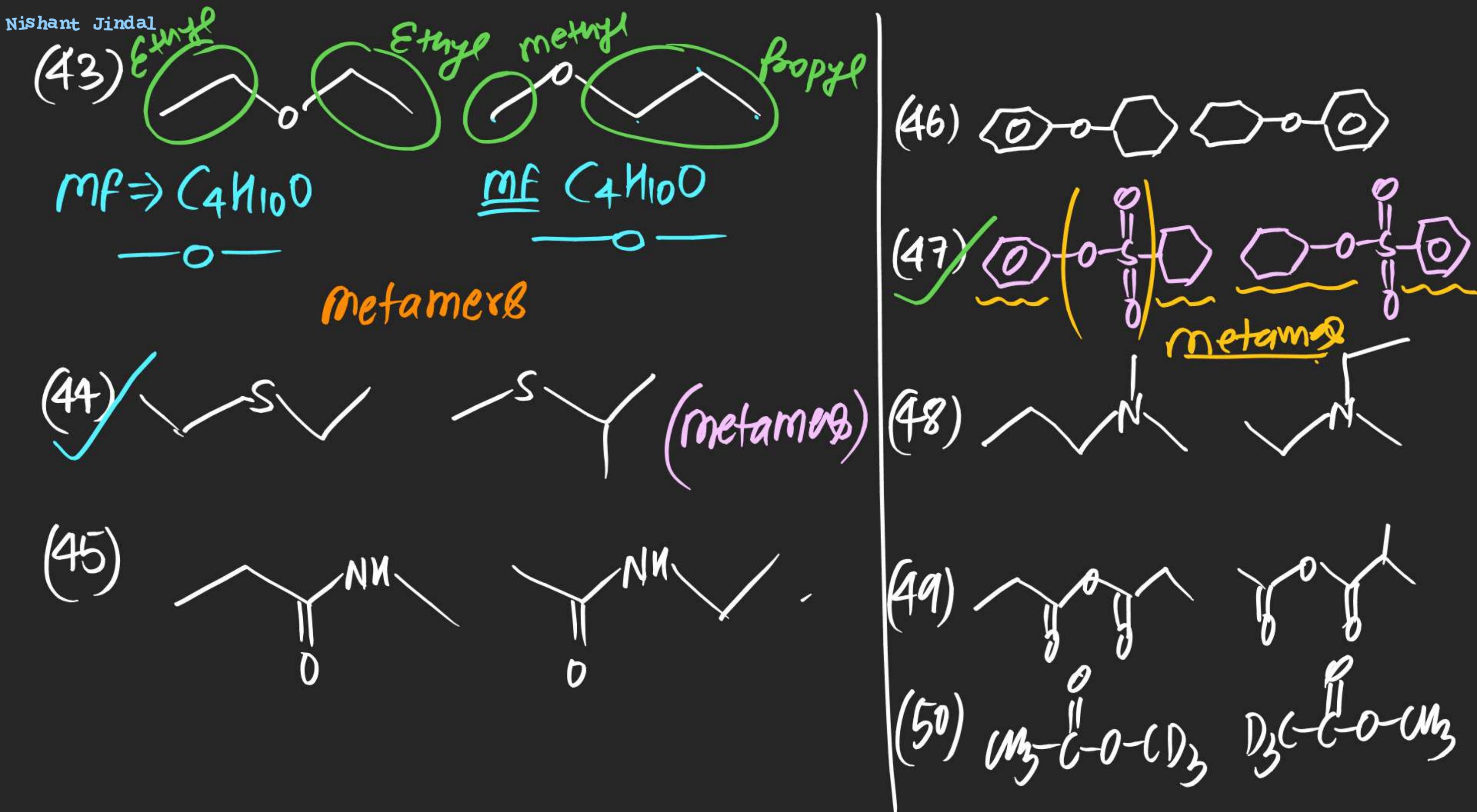
isocyanide



(II) metamerism:

Compounds having same MF But difference in alky groups w.r.t. to Bivalent functional groups.

monovalent



(51) Draw Hydrocarbon with least mol wt which
can show.

(a) Chain isomerism

Alkane

(b) Ring chain isomerism

Alkene

(c) Position isomerism

Alkyne

Tautomerism:-

(x-1, 2 & 3)
= = =