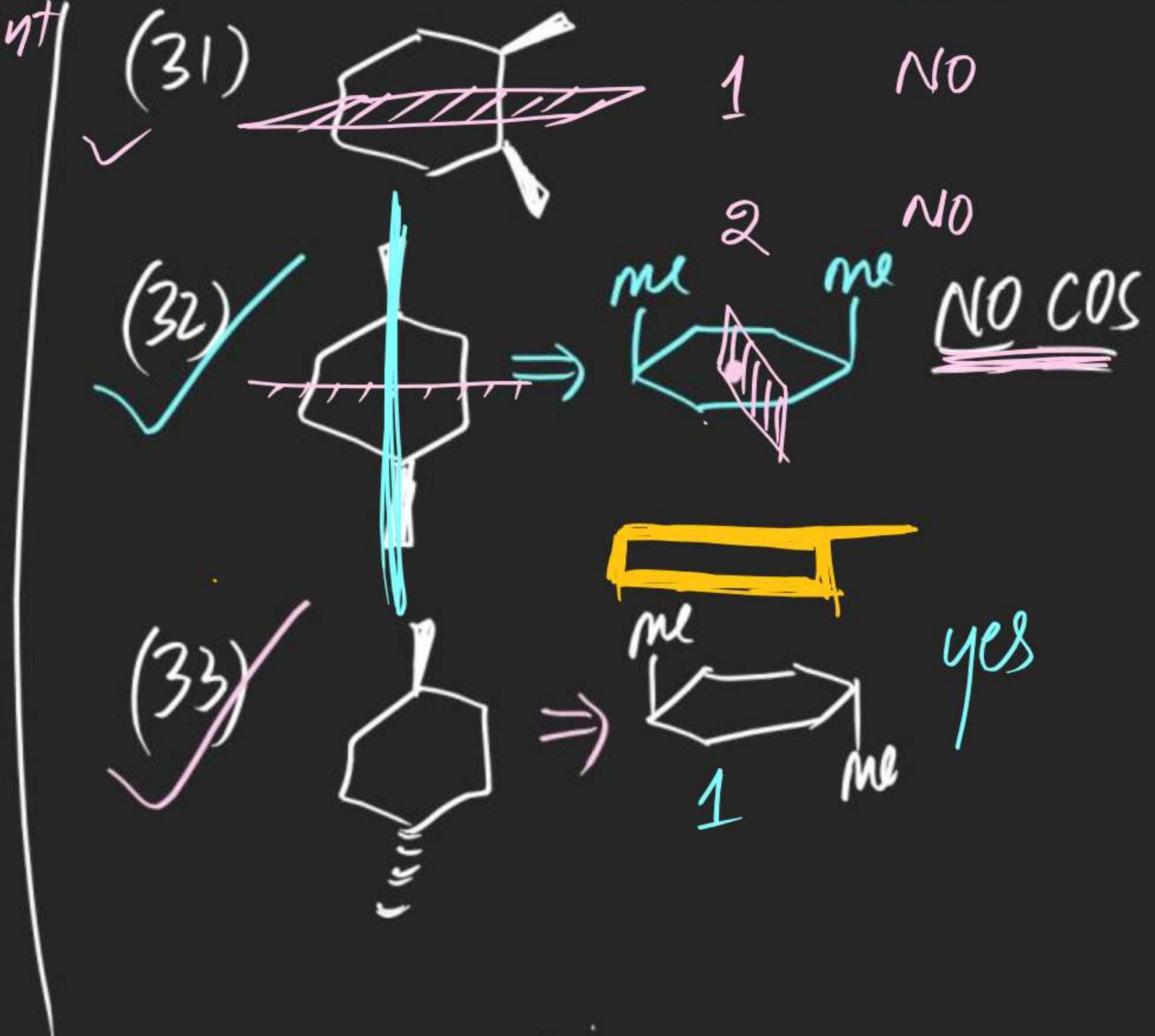
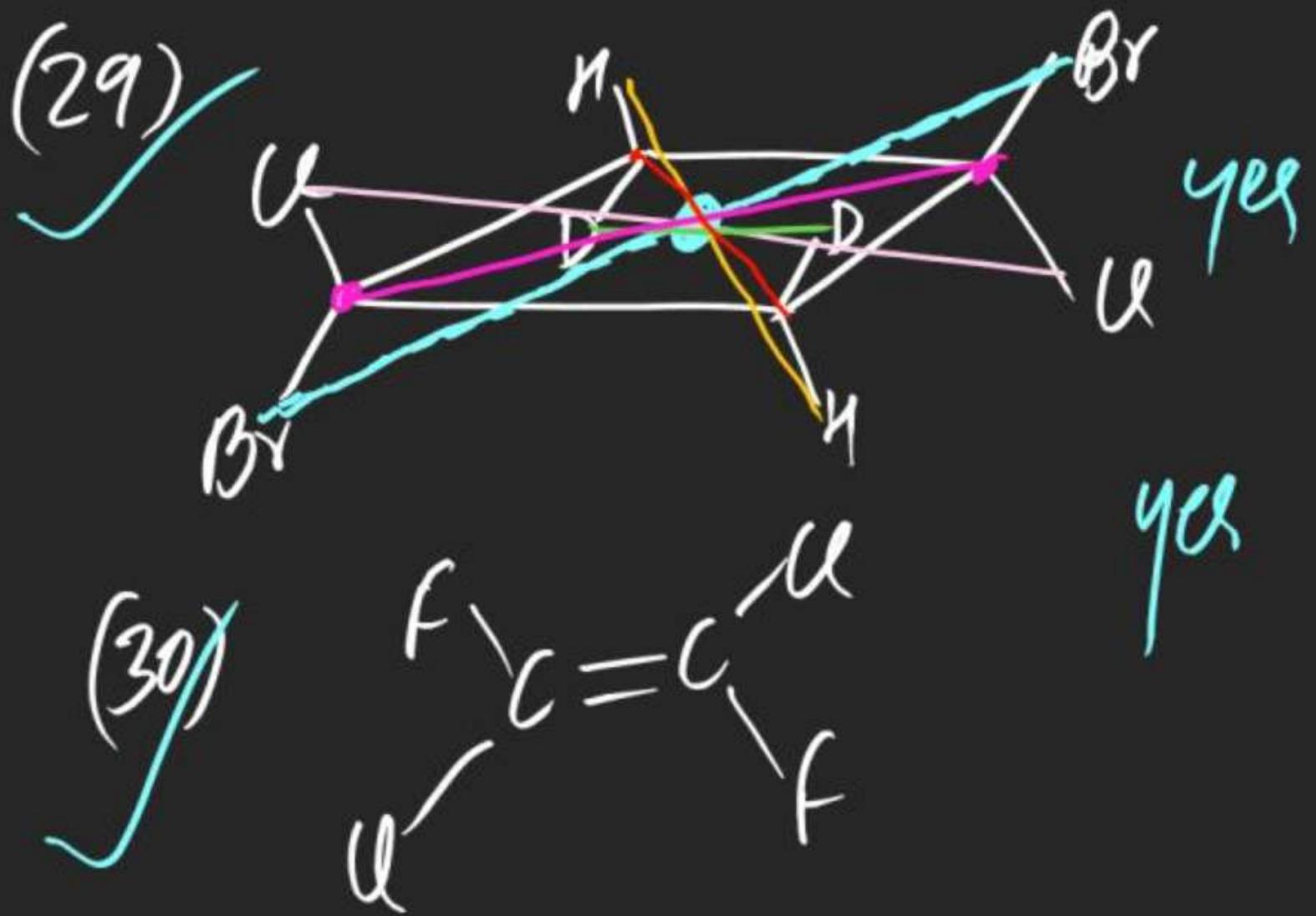


Nishant Jindal

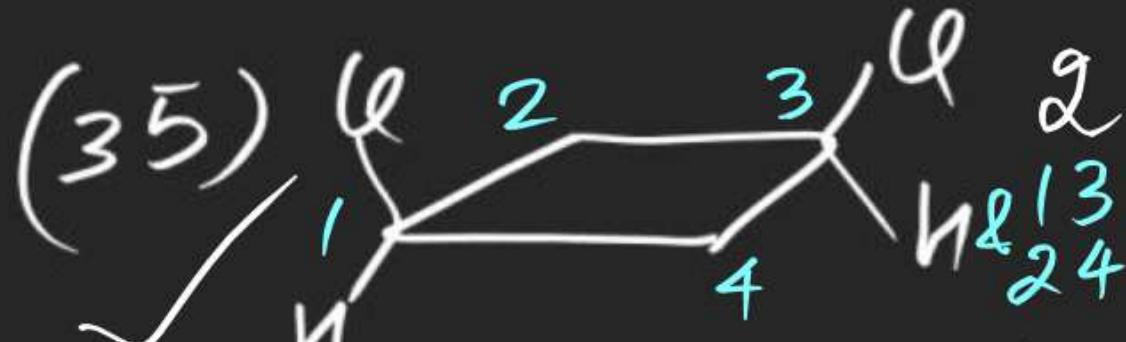
(#) Centre of Symmetry / Centre of Inversion

It is defined as a Imaginary point across which whole compound is inverted.

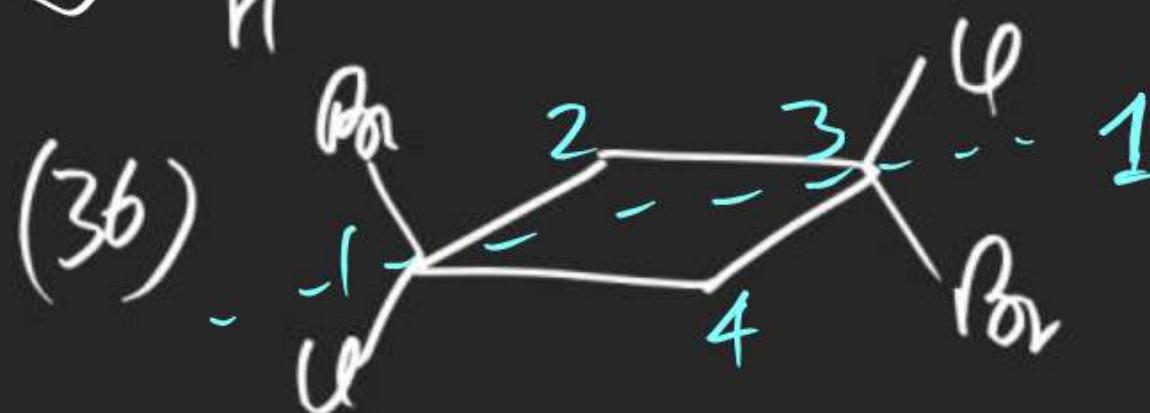




POS COS
1 NO



NO



1



1

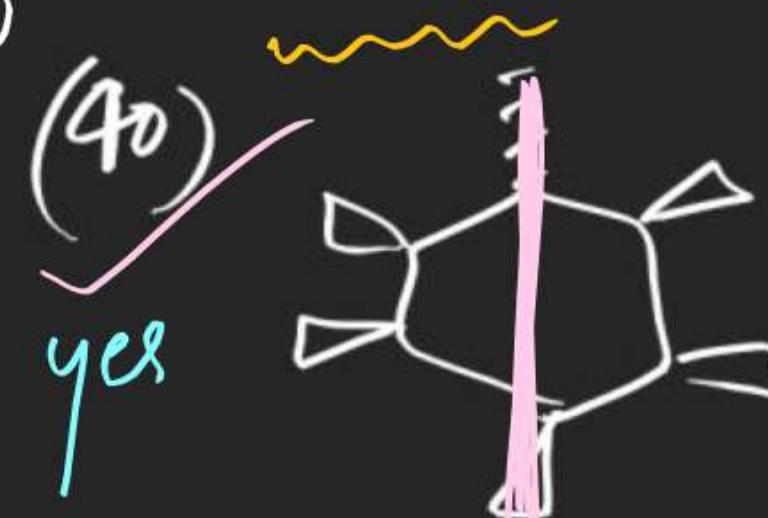


0



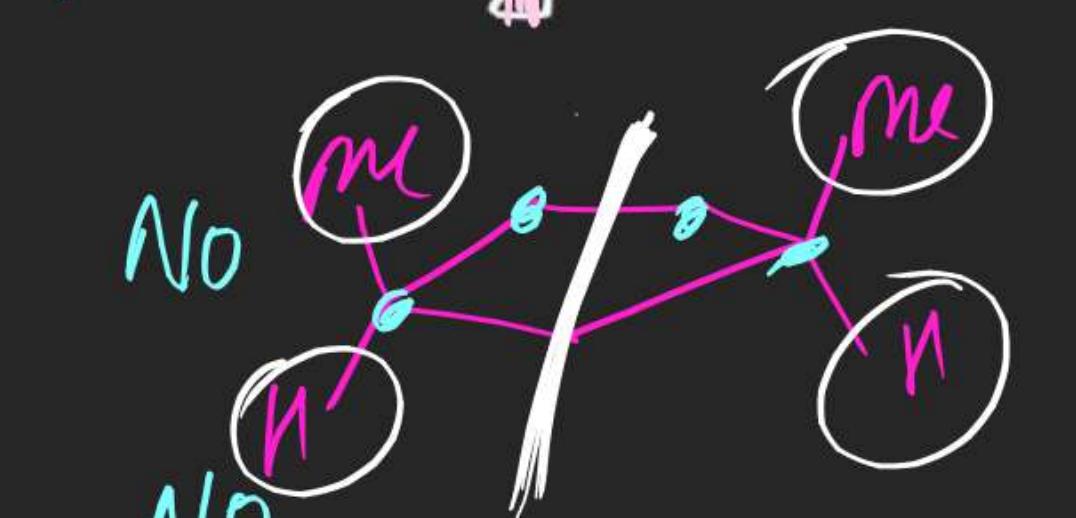
NO

| POS | COS | AOS |
|-----|----------|-----|
| 6 | 14/25/36 | NO |

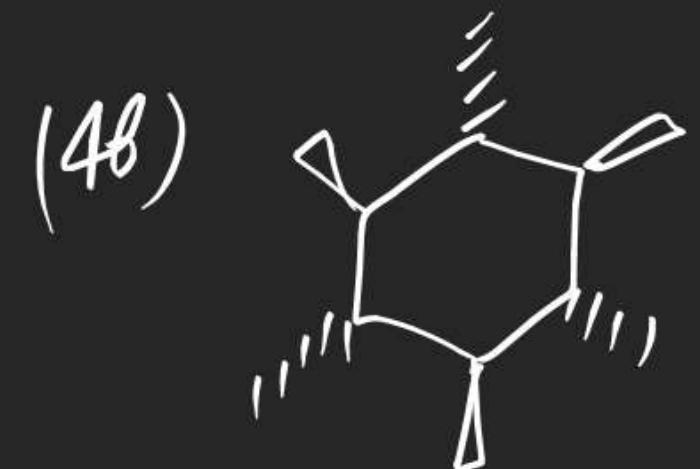
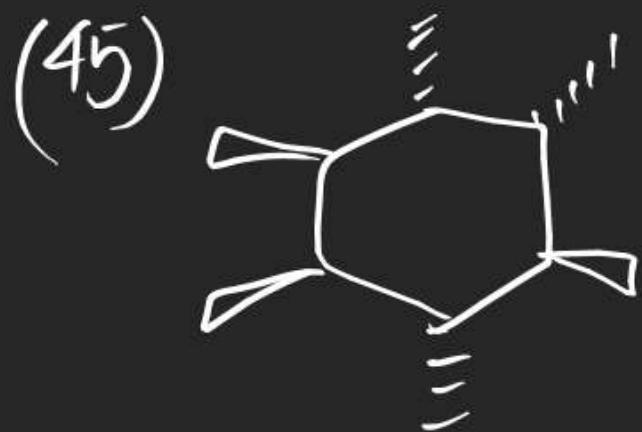
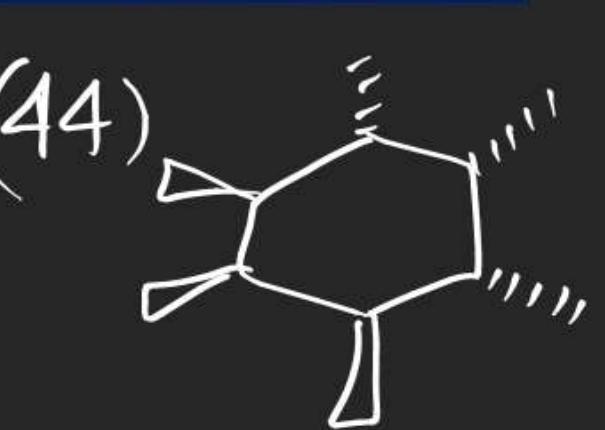
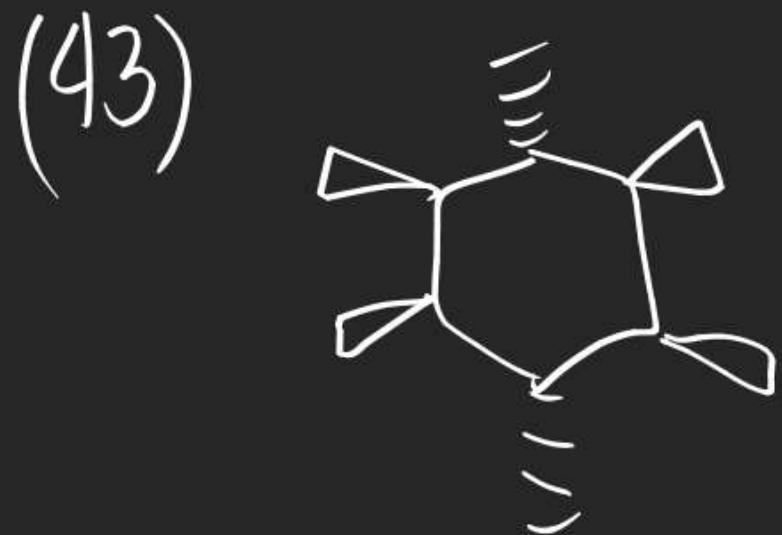
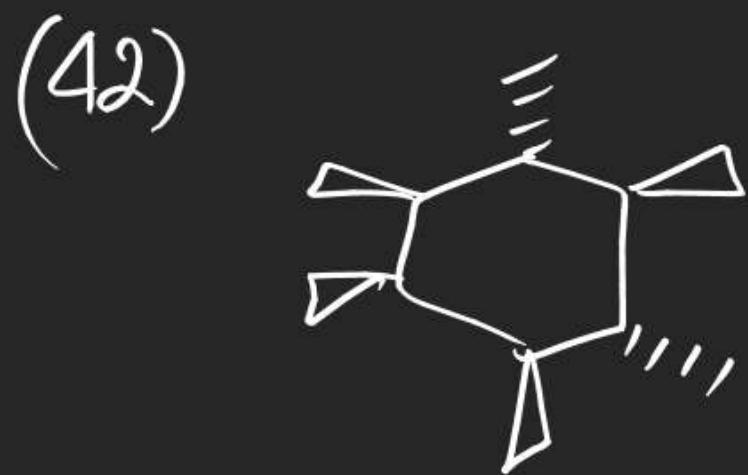
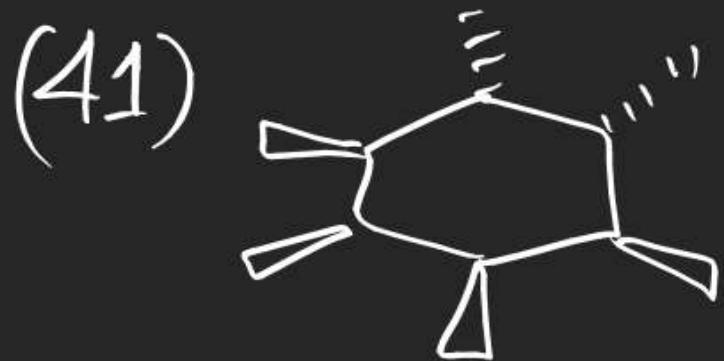


yes

| POS | COS | AOS |
|-----|-----|-----|
| 1 | 1 | NO |



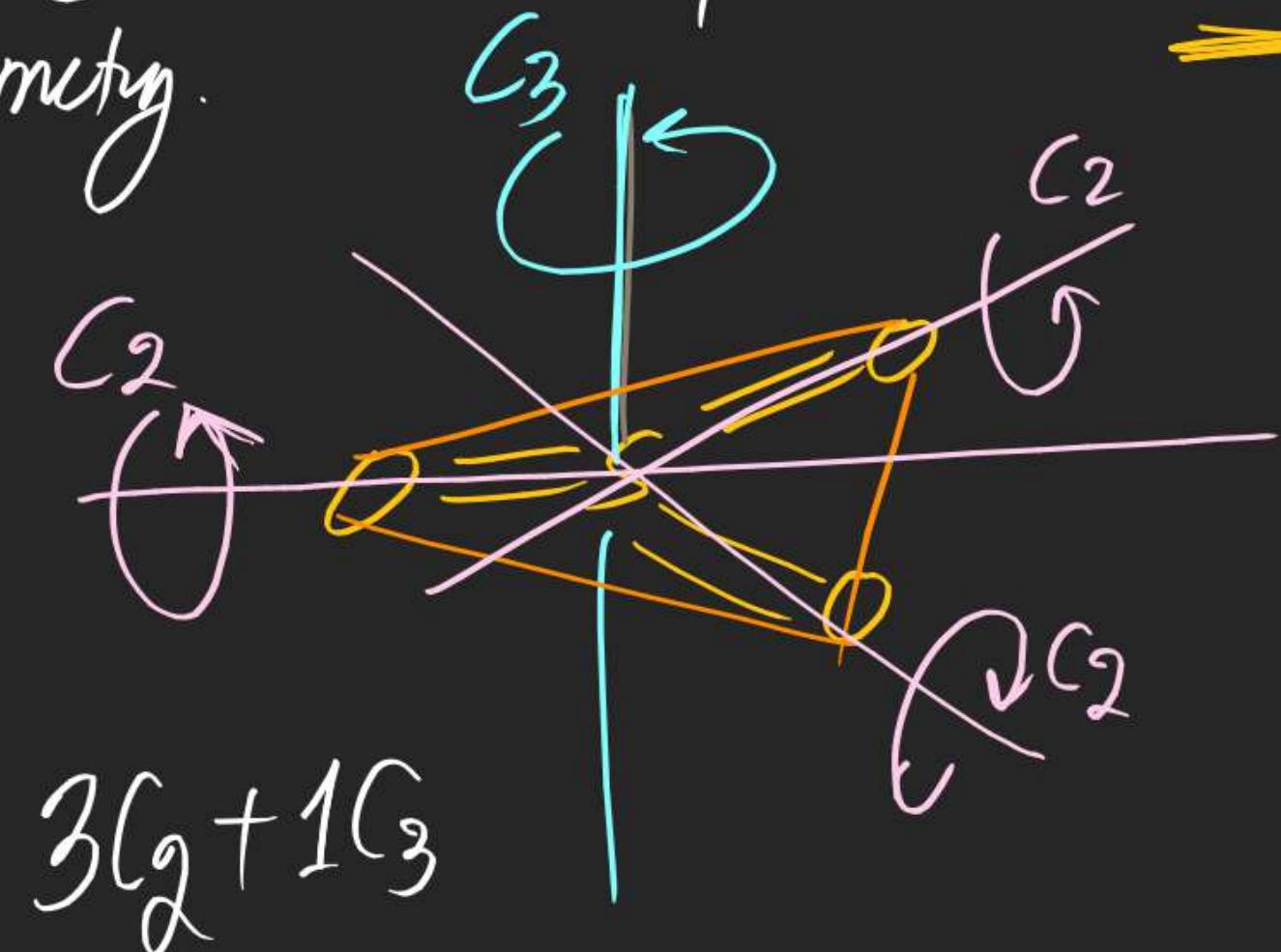
STEREOISOMERISM



(#) Axis of Symmetry (AOS)

It is defined as a Imaginary line Across which a molecule is Rotated By $\left(\frac{360}{n}\right)^{\circ}$ & if Same appearance is obtained then that line is known as C_n AOS (or) n -Fold Axis of symmetry.

(A7) SO_3



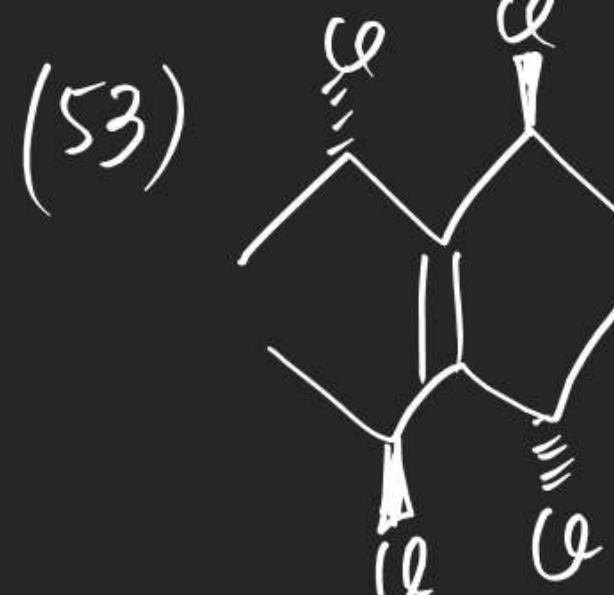
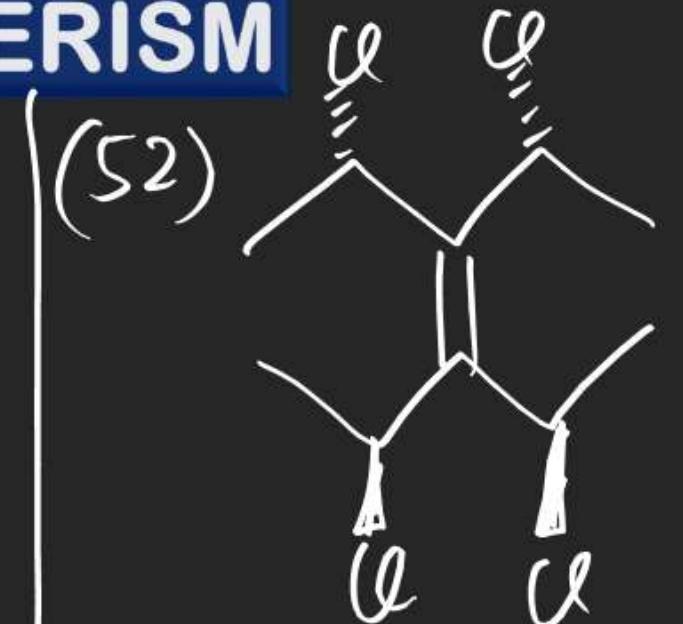
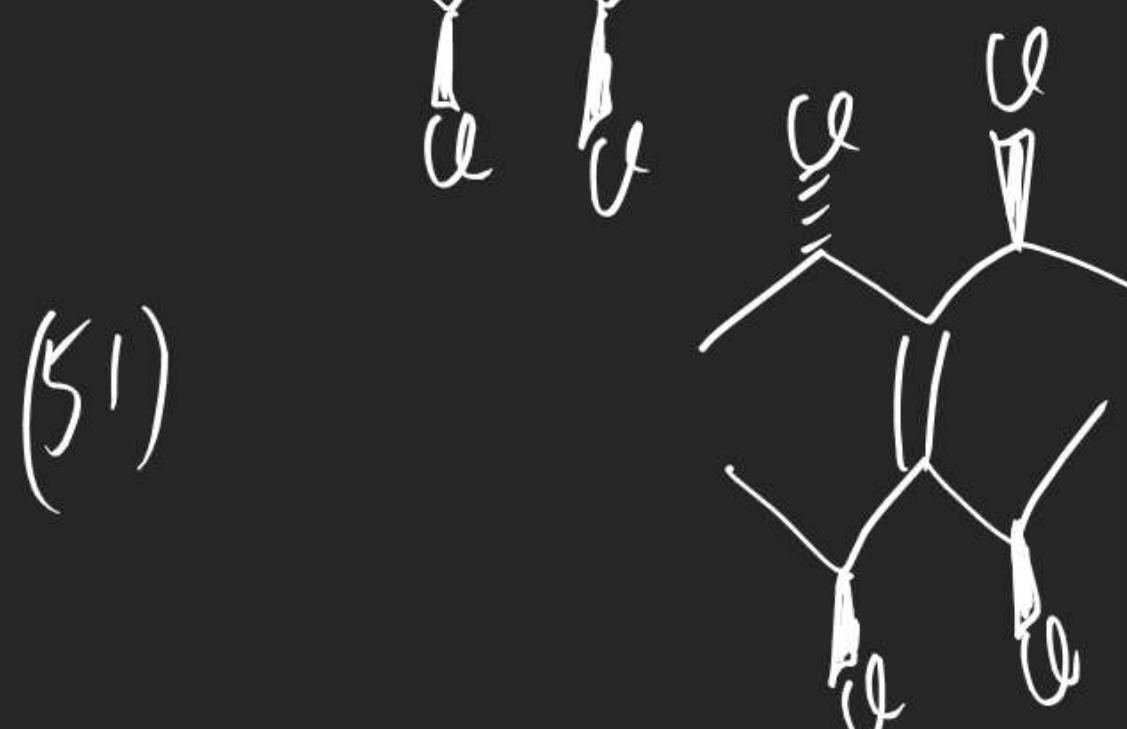
$$\left(\frac{360}{n}\right)^{\circ} \quad C_n$$

$$\begin{array}{ll} 360^{\circ} & C_1 \\ 180^{\circ} & C_2 \\ 120^{\circ} & C_3 \\ 90^{\circ} & C_4 \\ 72^{\circ} & C_5 \\ 60^{\circ} & C_6 \end{array}$$

STEREOISOMERISM

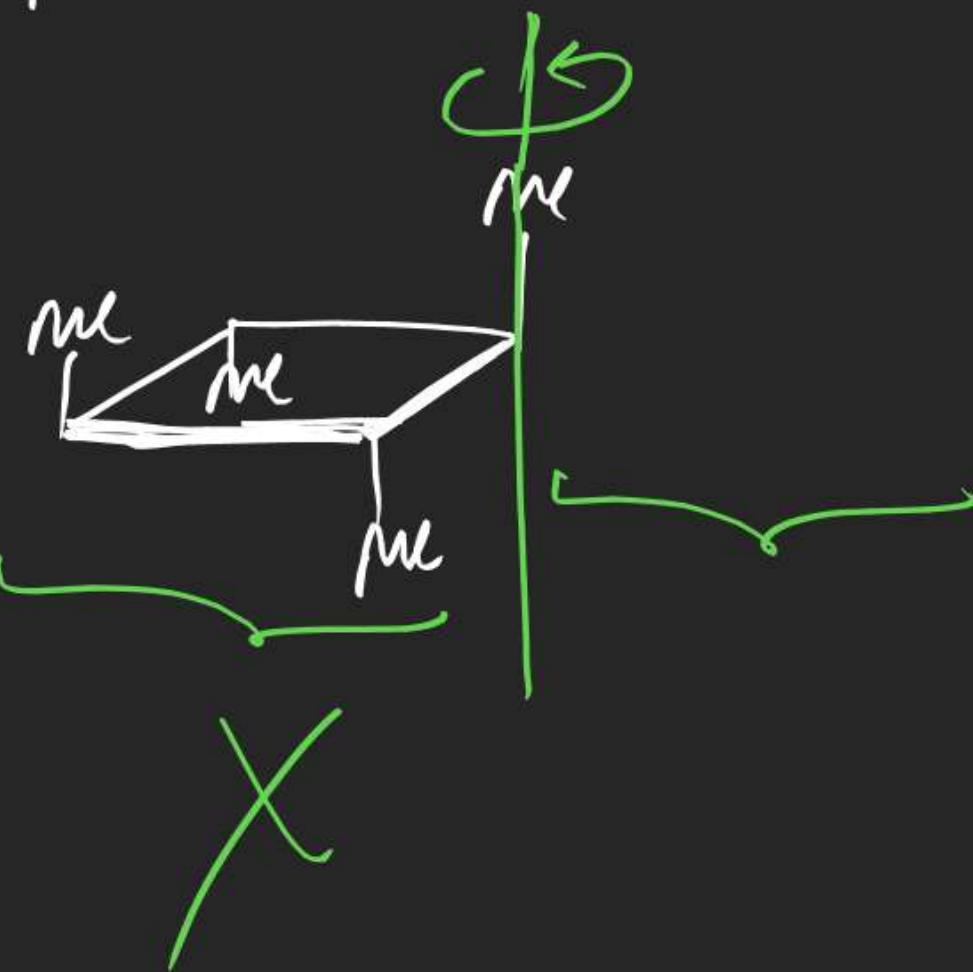
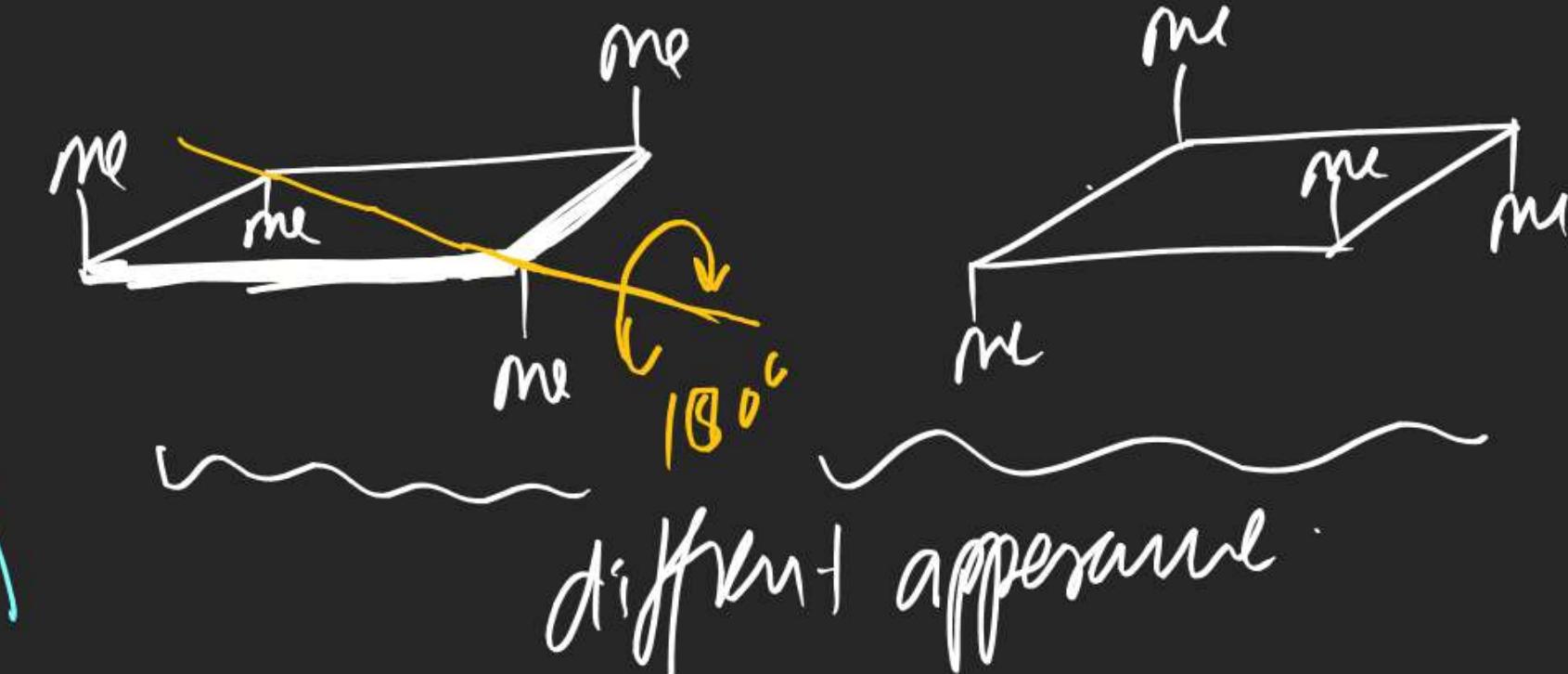
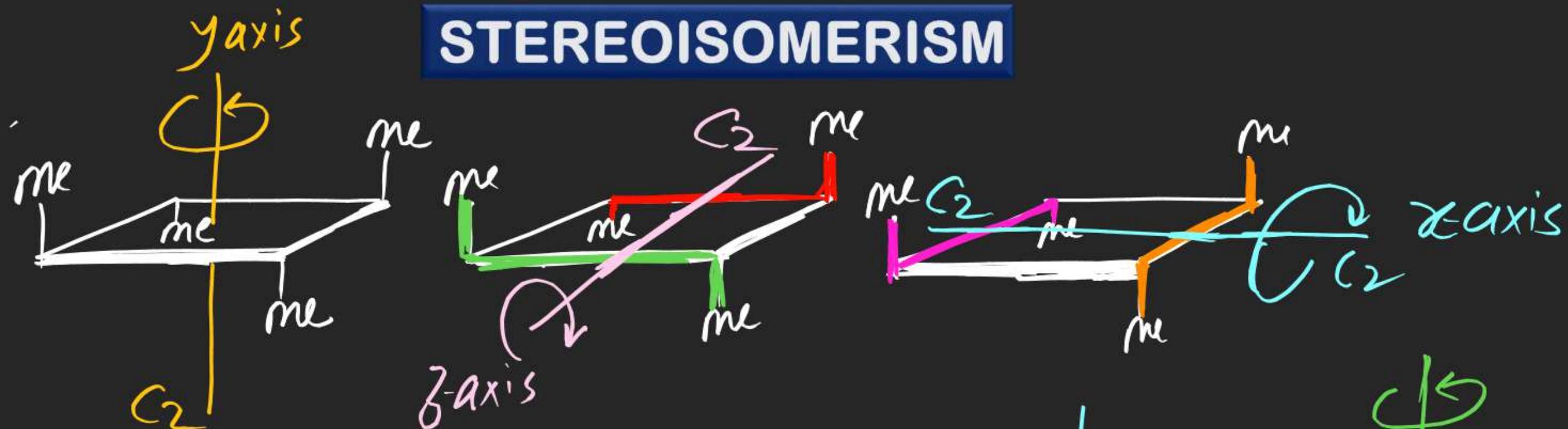


POS | COS | ADS
2 NO 3C₂



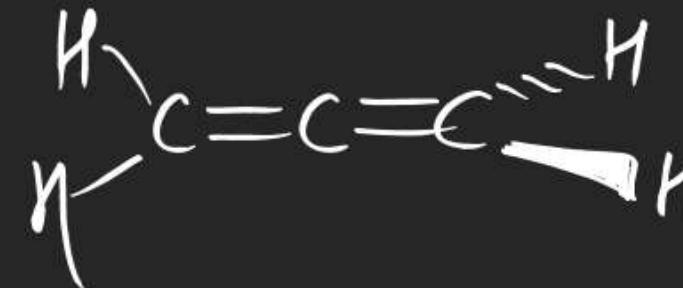
STEREOISOMERISM

SOLⁿ(40)

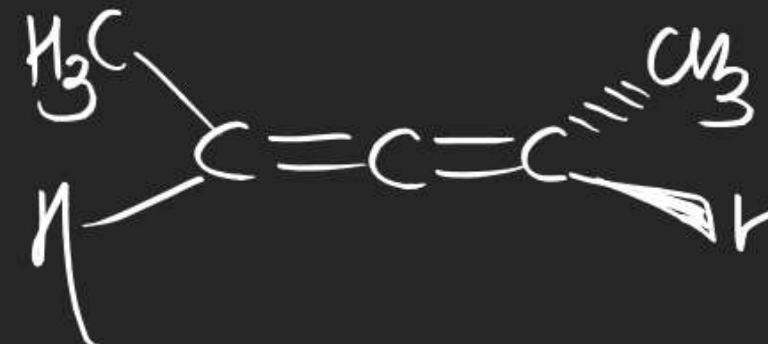


STEREOISOMERISM

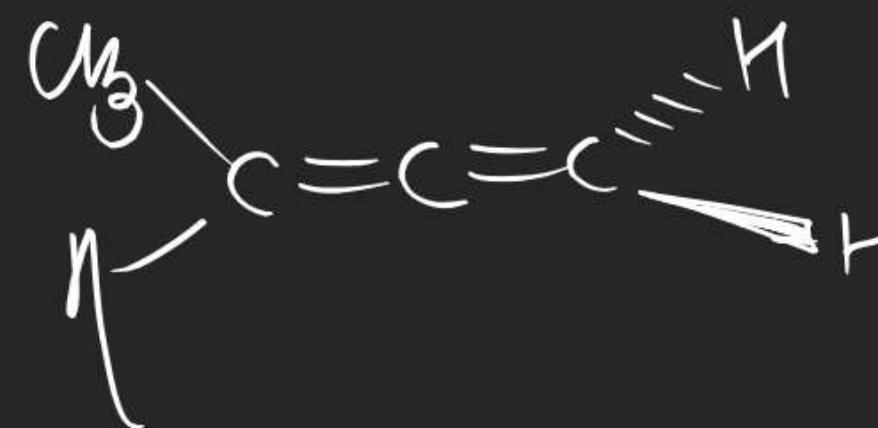
(55)



(56)



(57)



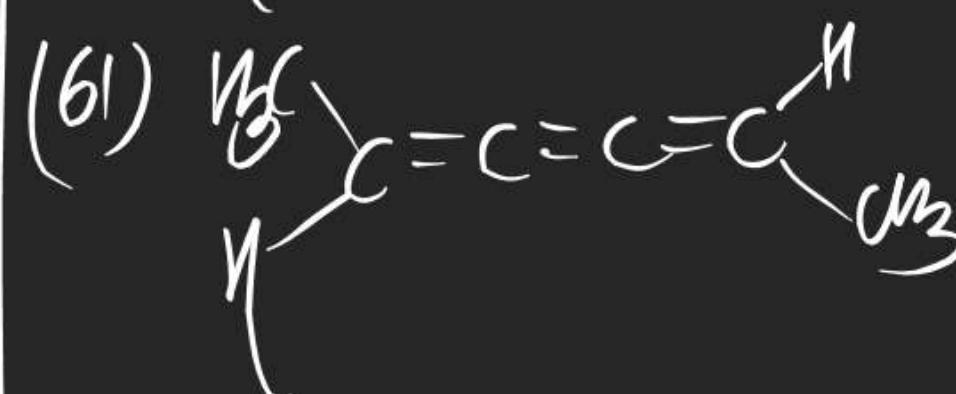
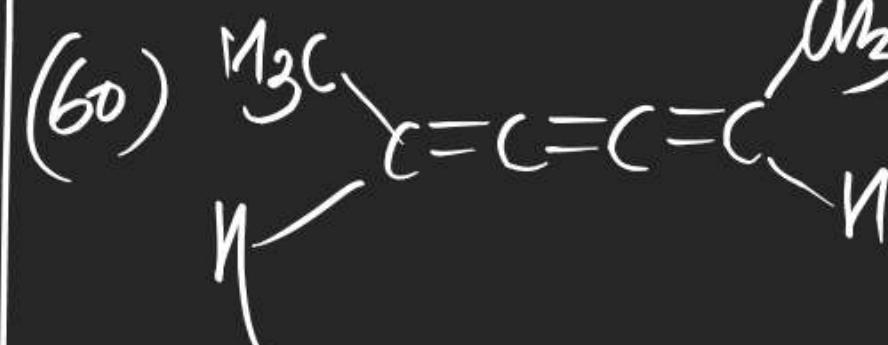
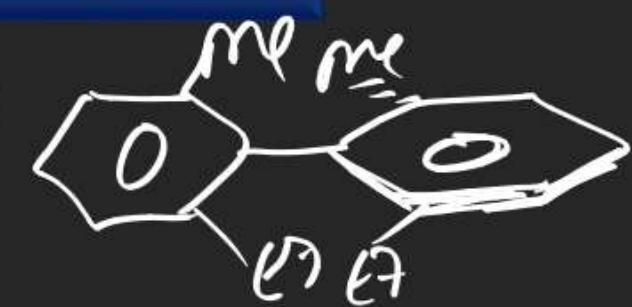
(58)



POS|COS

AOS

(59)



(62)

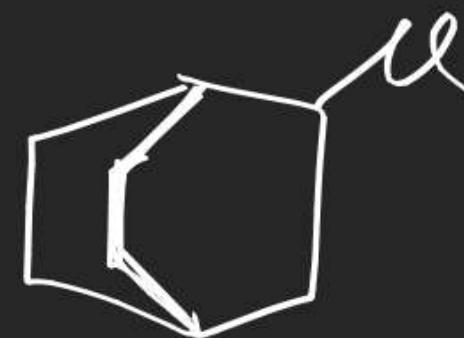


STEREOISOMERISM

(63)



(64)



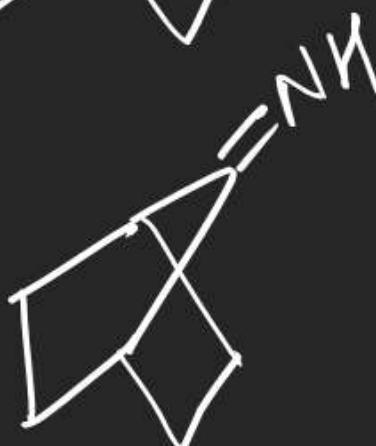
(65)



(66)



(67)



(68)



STEREOISOMERISM

(#) Alternating Axis of symmetry : (AAOS)

STEREOISOMERISM

HW (i) Theory Copy
(ii) Structural isomerism sheet (1-50 Questions)