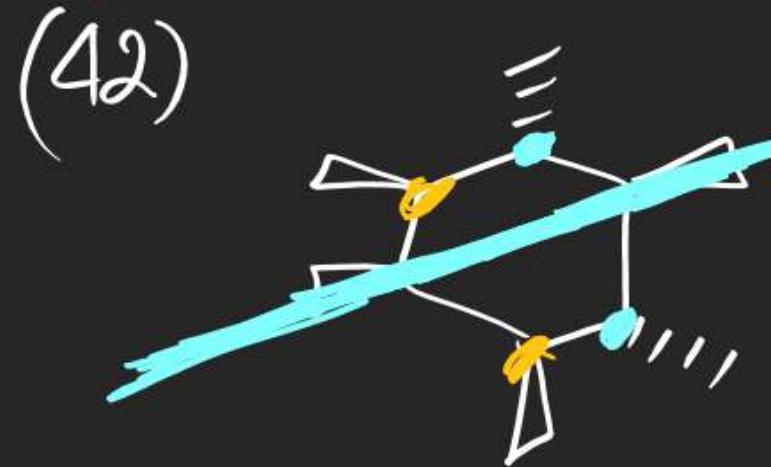


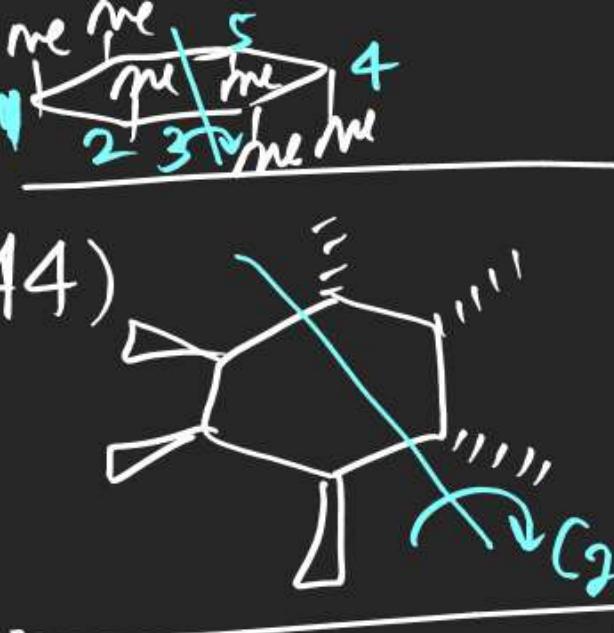
	POS	COS	AOS
	1	No	No



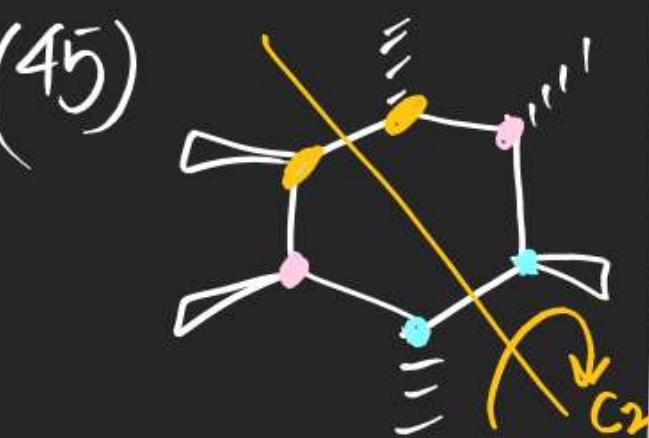
	POS	COS	AOS
	1	No	No



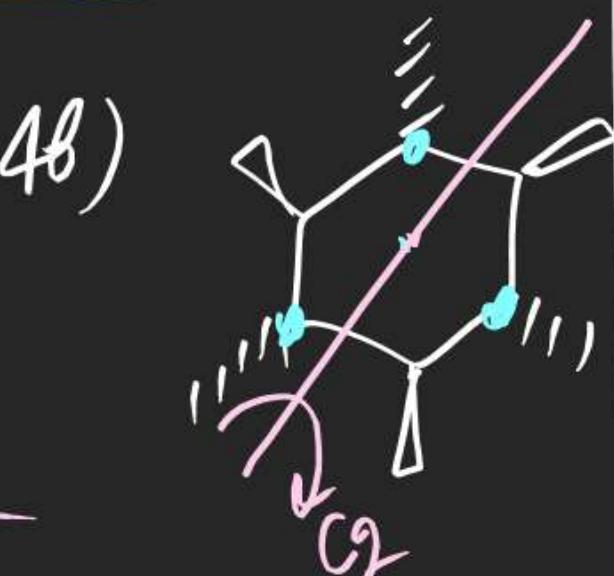
	POS	COS	AOS
	2	No	$1C_2$



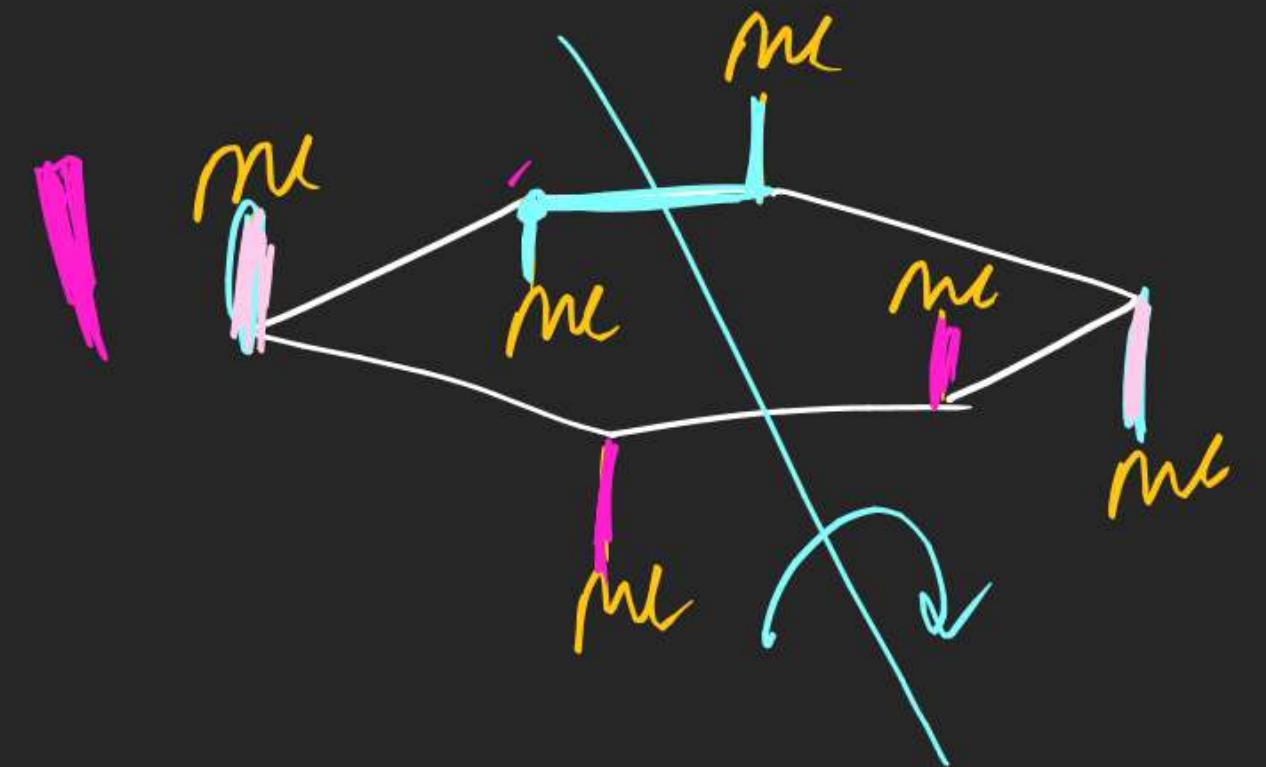
	POS	COS	AOS
	1	yes	$1C_2$



	POS	COS	AOS
	0	No	$1C_2$

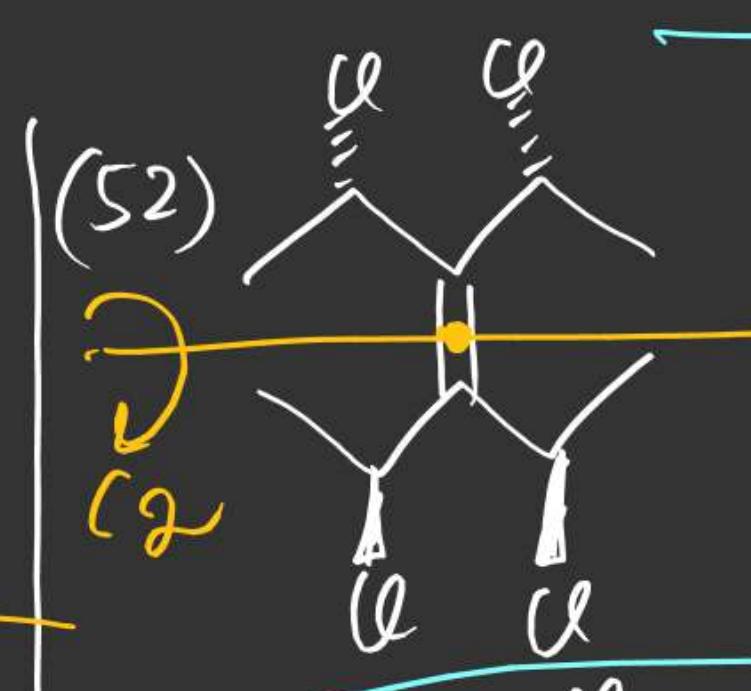
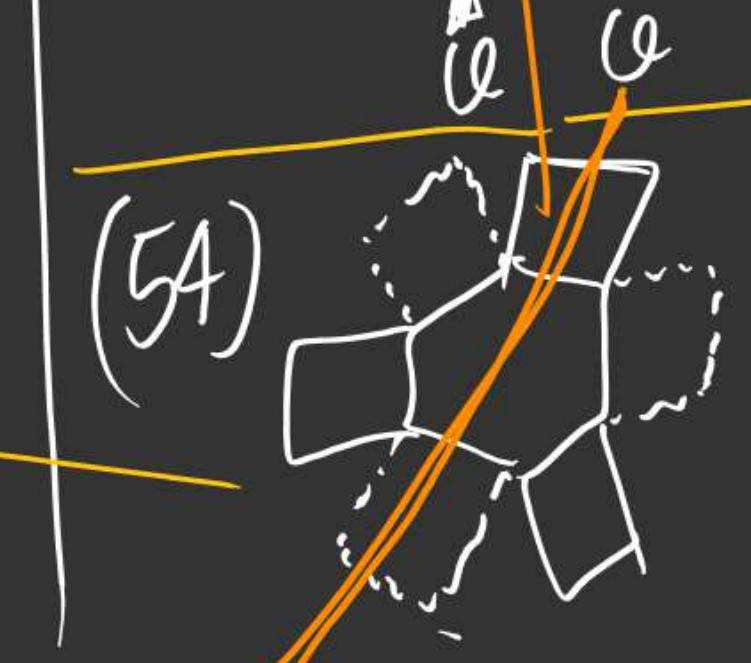


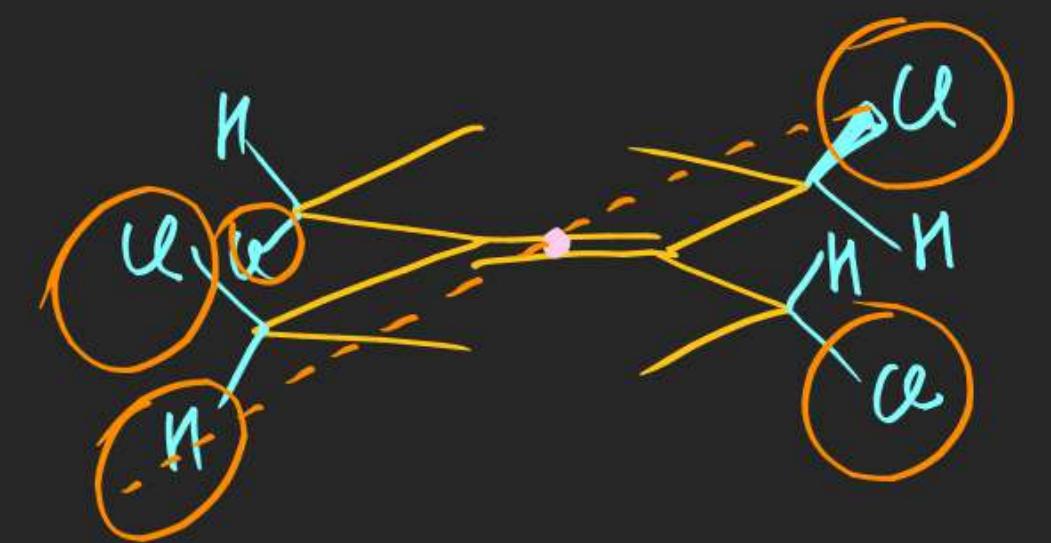
	POS	COS	AOS
	3	yes	$1C_3 + 3C_2$

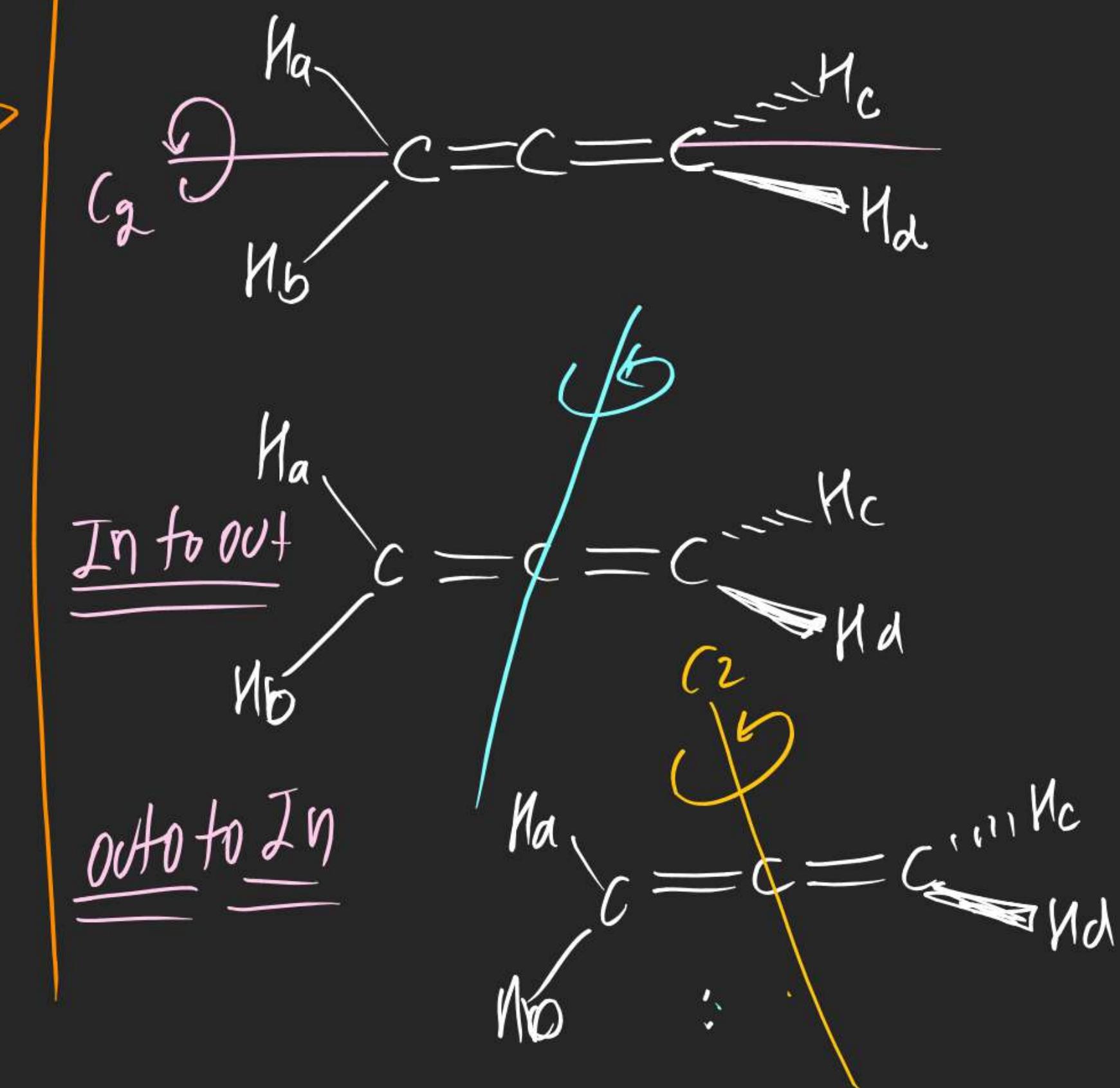
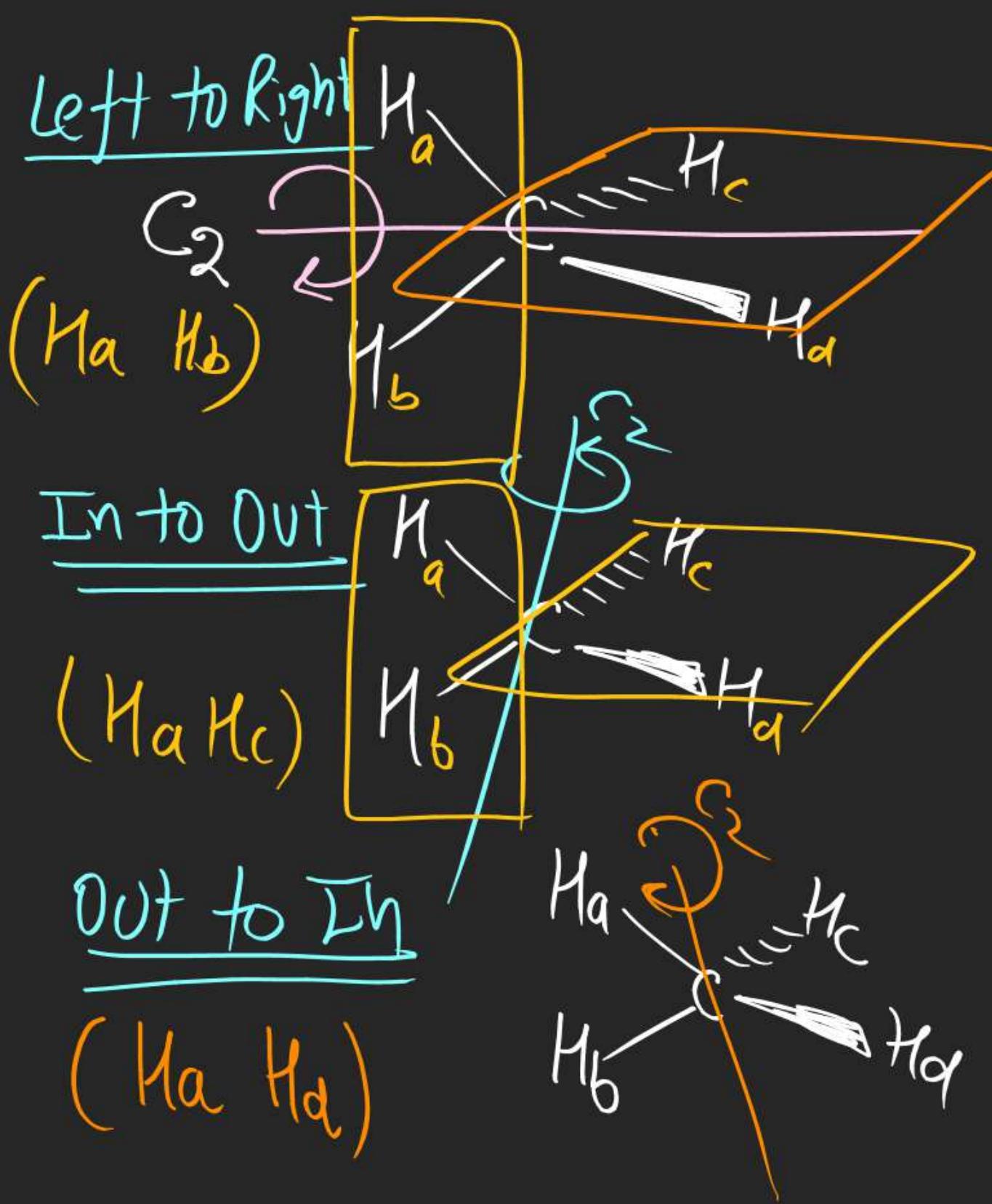




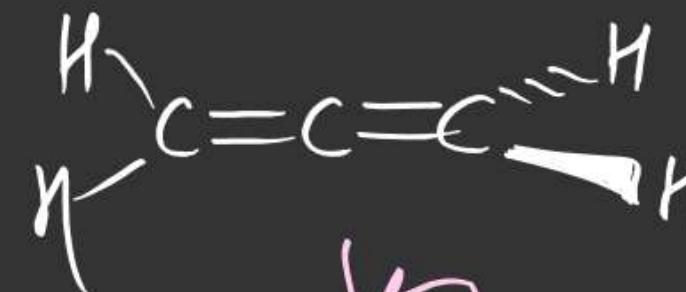
	POS	(COS)	AOS
2	NO	$1C_3$	
3	NO		$1C_2$
2	NO		$1C_2$
0	NO		No

(52) 	1	yes	$1C_2$ (x-axis)
(53) 	0	NO	$3C_2$ (x-axis) y-axis z-axis
(54) 	3	yes	$1C_3$ $+ 3C_2$



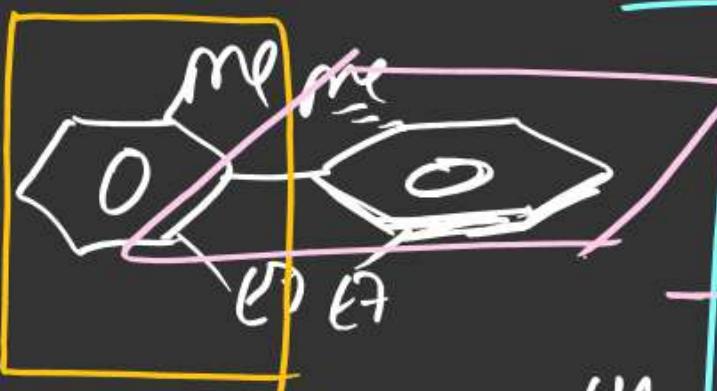


(55)



POS	4OS	AOS
2	NO	$3G_2$

(59)

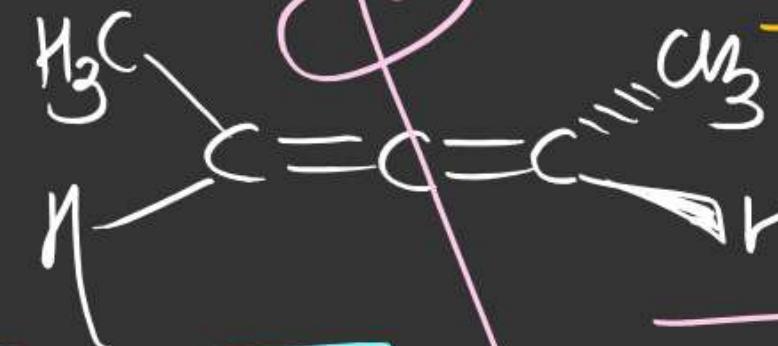


0

NO

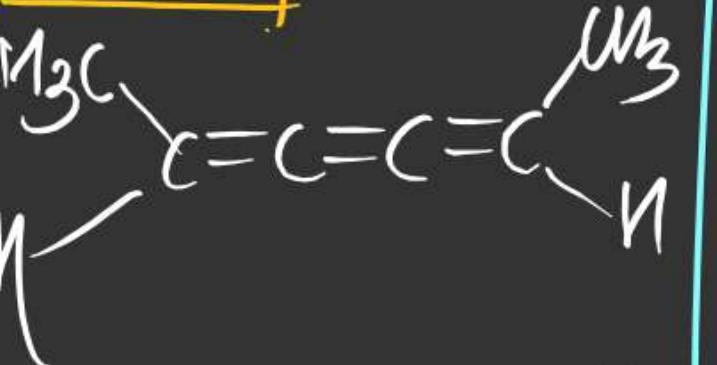
 $1C_2$

(56)

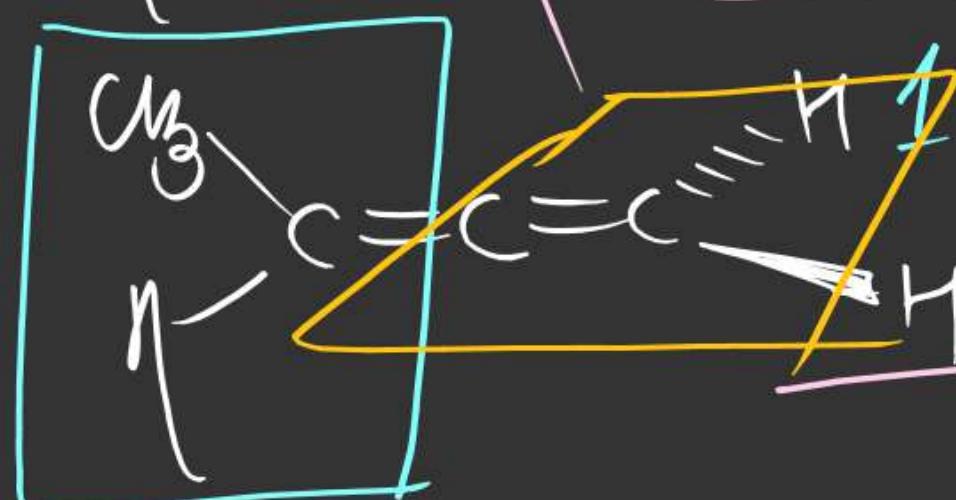


POS	4OS	AOS
0	NO	$1C_2$

(60)

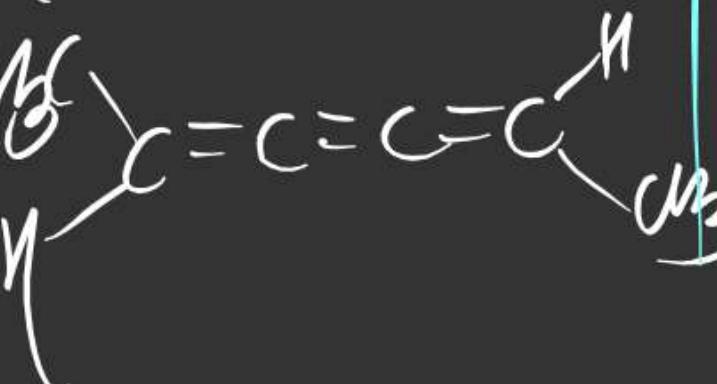


(57)



POS	4OS	AOS
1	NO	NO

(61)



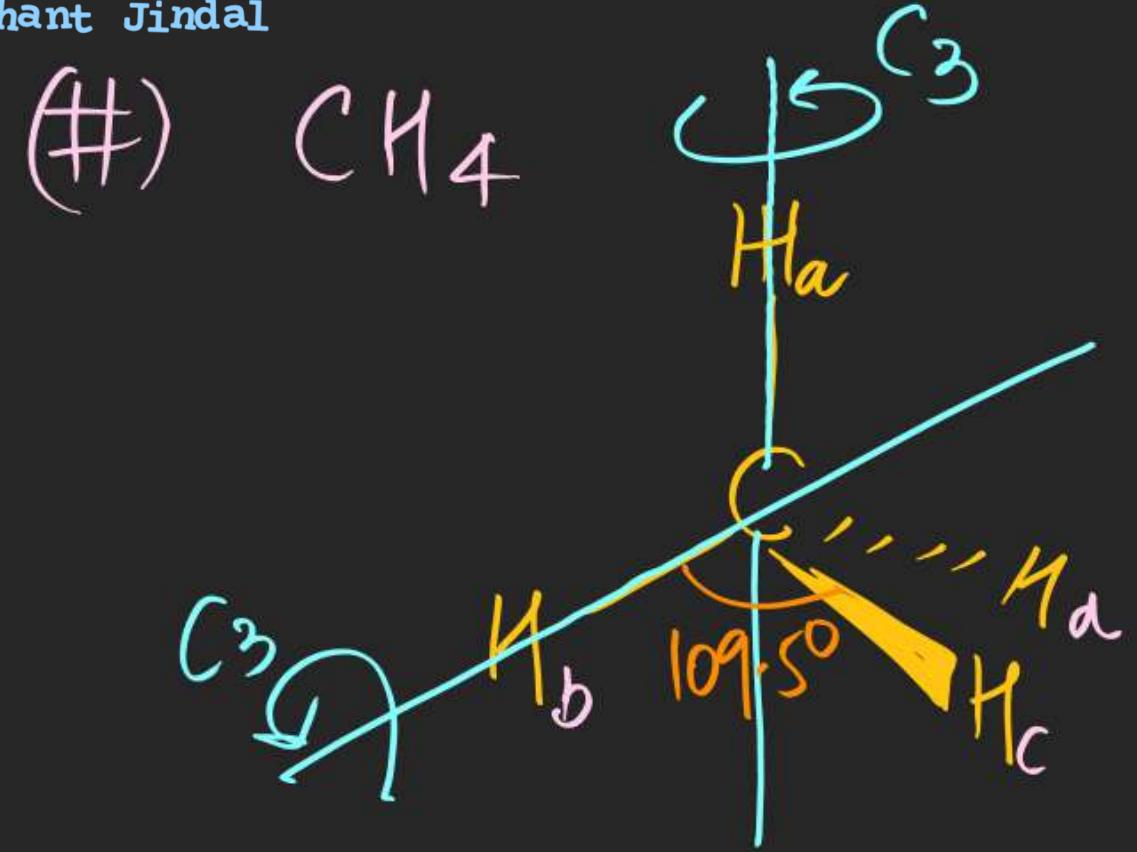
(58)



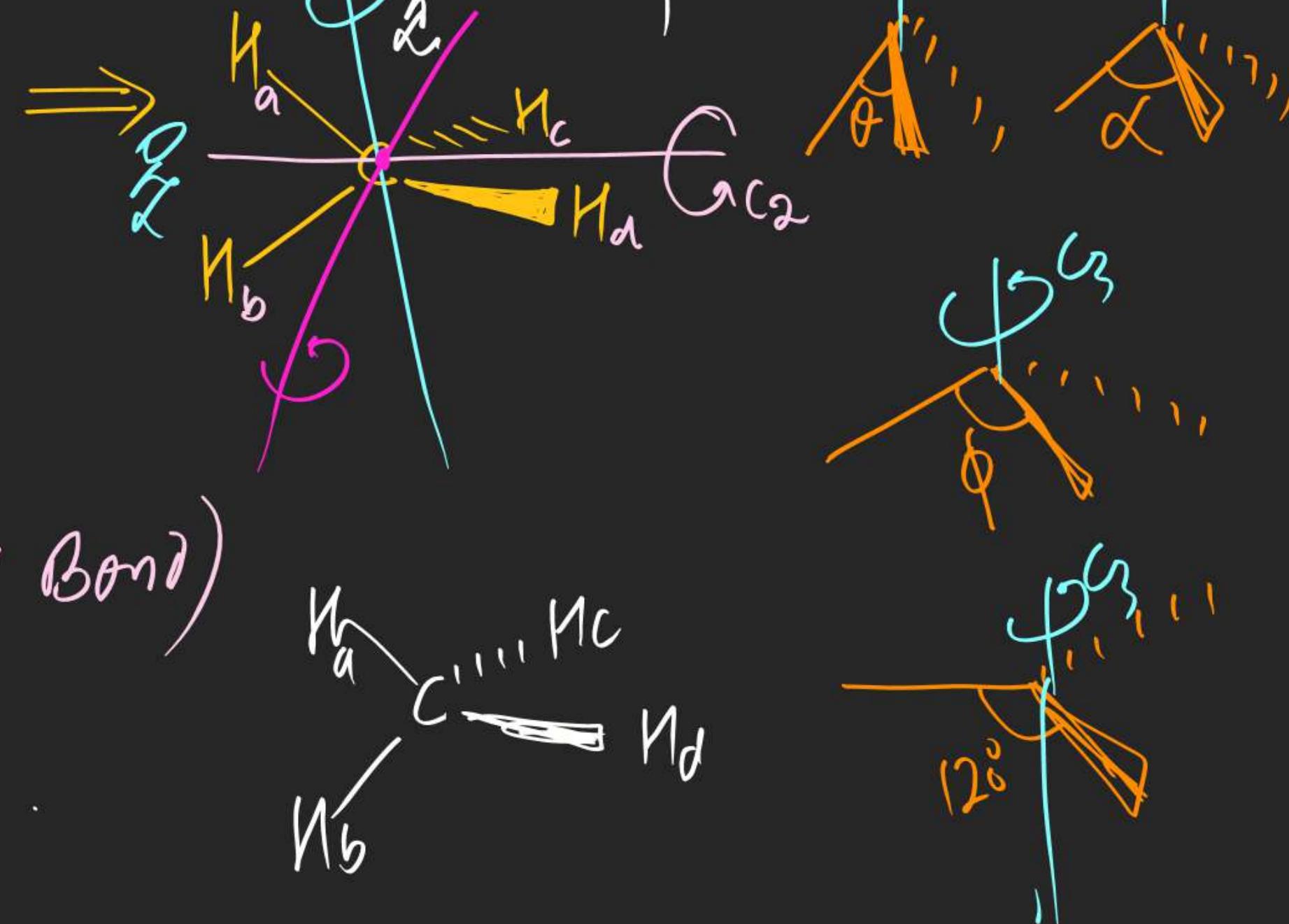
POS	4OS	AOS
0	NO	$1C_2$

(62)





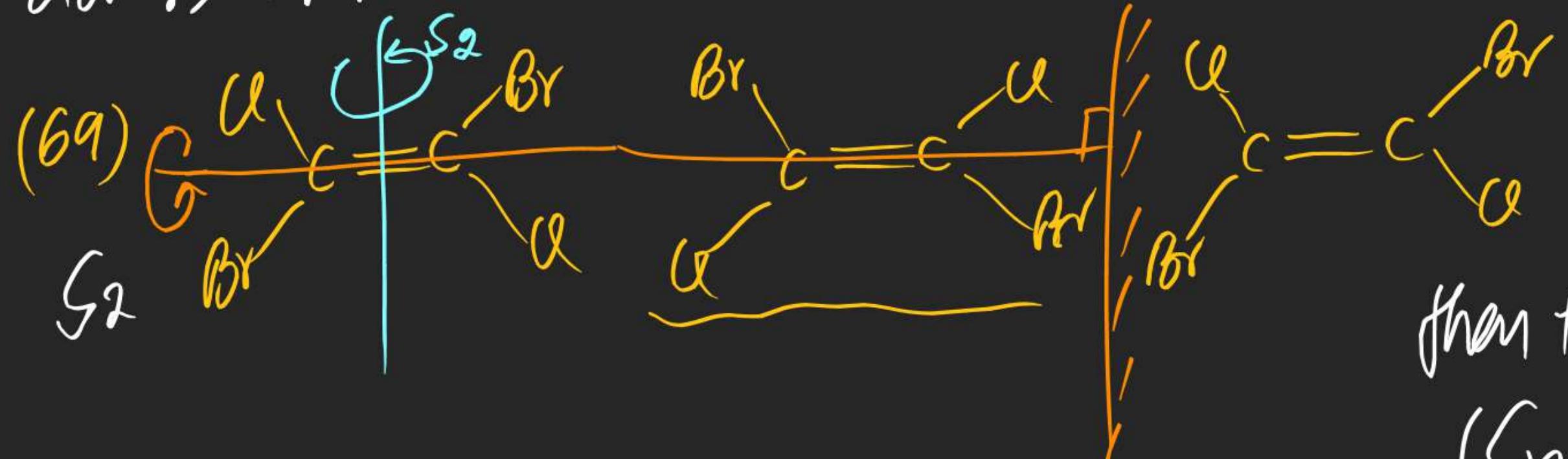
POS	COS	AOS
6	ω_0	$4C_3 + 3C_2$



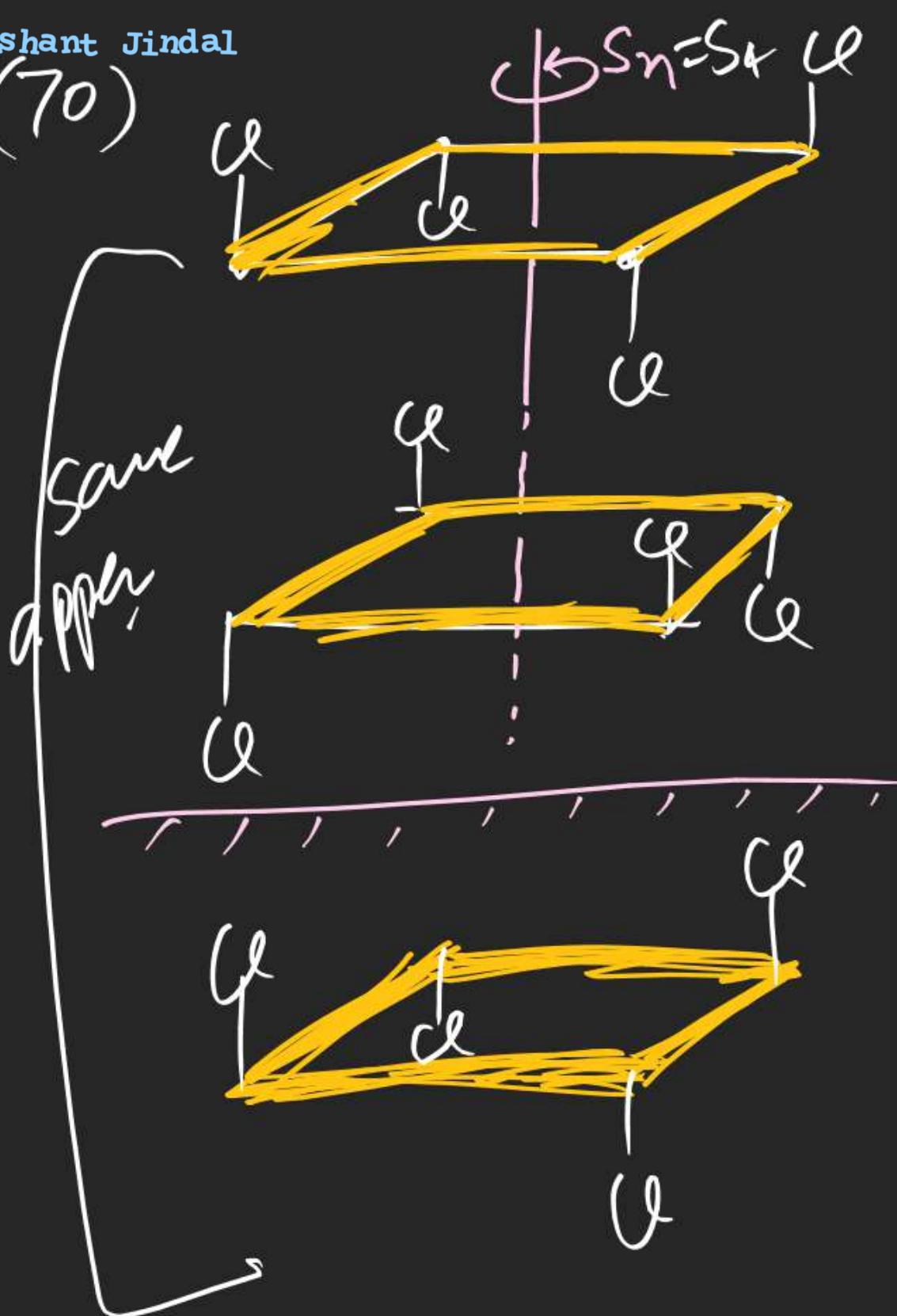
STEREOISOMERISM

(#) Alternative Axis of symmetry : (AAOS)

→ It is defined as a imaginary line across which
Compound is Rotated By $(360/n)^{\circ}$ & then Reflected
across a mirror which is in \perp direction of initial line, if final
appearance is exactly same as initial appearance
then that line is called
(Sn AAOS)



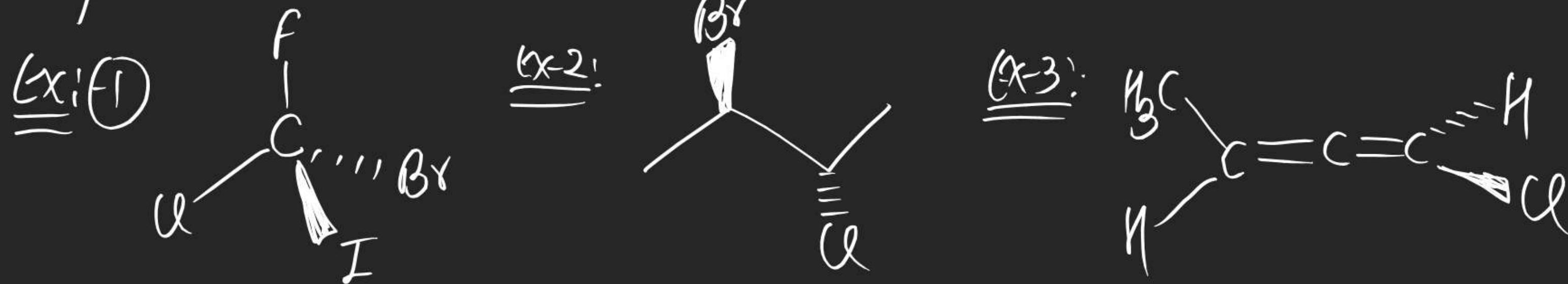
(70)



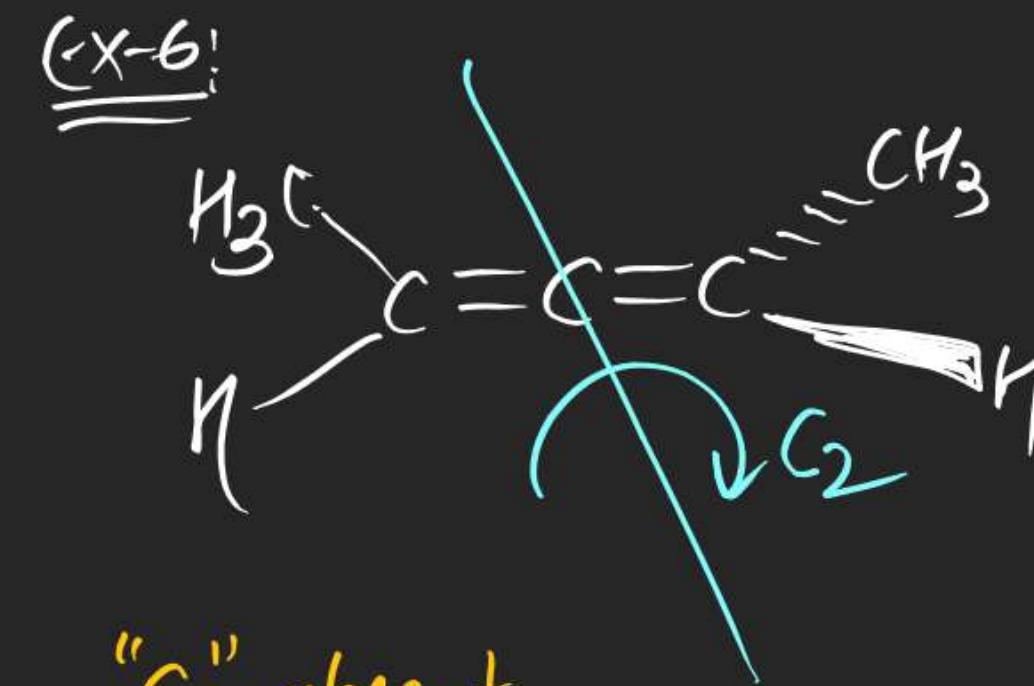
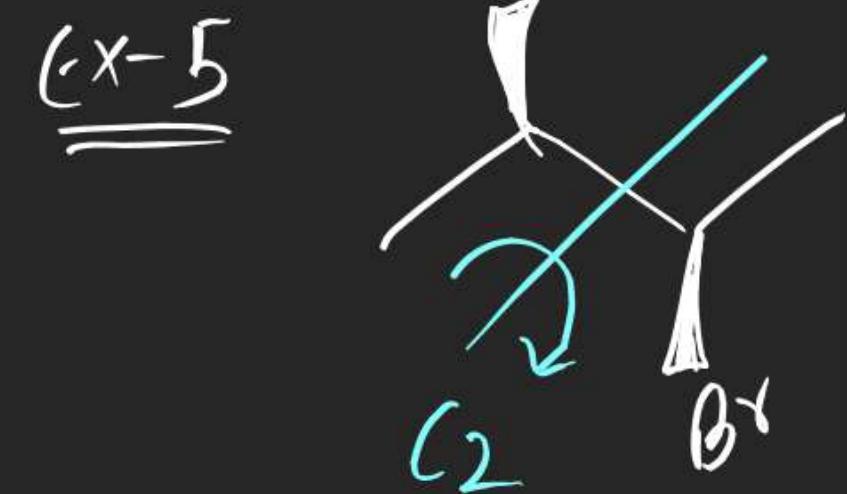
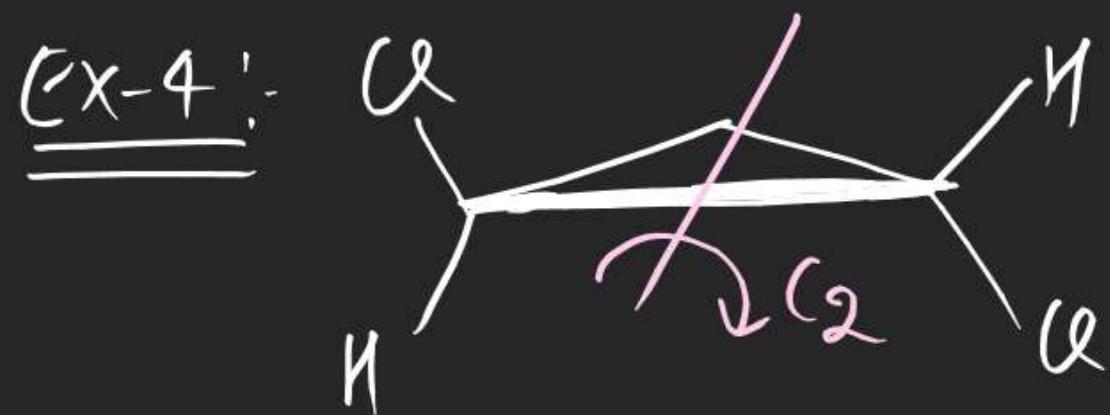
S_2	100°
S_3	120°
S_4	90°
S_5	72°
:	:
:	:
:	:

(#) Asymmetric Compound: [All $\begin{array}{c} A \\ | \\ A \\ | \\ A \end{array}$ absent] \rightarrow asymmetric

Compounds having absence of All symmetries are known as asymmetric compounds.



(#) Dissymmetric Compound: Compounds having only one (AOS) are known as Dissymmetric Compounds.



Note: ①

Compound $\xrightarrow{\text{"Sn" absent}}$ Dissymmetric Compound
 $(C_n \text{ present})$ $\xrightarrow{\text{"Cn" absent}}$ Asymmetric Compound
 $(C_1 \text{ present})$

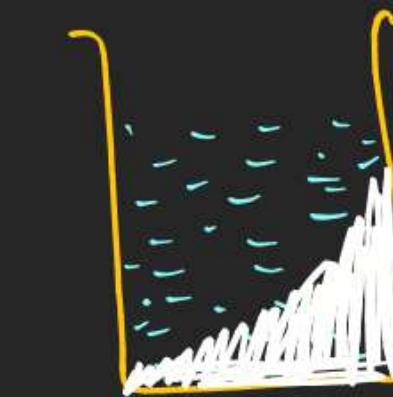
② All asymmetric compounds are dissymmetric compounds
 But converse is not true.

(iii) (1 page Blank)

Optical Isomerism

Compounds having same molecular formula & same structural formula but different behaviour with light () are known as optical isomers

Ex-1:-



$$(\alpha_{D}^{obs} = +\theta) \quad (\alpha_{D}^{obs} = -\delta) \quad (\alpha_{D}^{obs} = 0)$$