



# Doubt Clearing Session

Course on Nomenclature of Organic Compounds for Class XI

# (#) Rules for numbering of principal chain

⇒ Number the principal so that lowest locant position must follow.

F

m

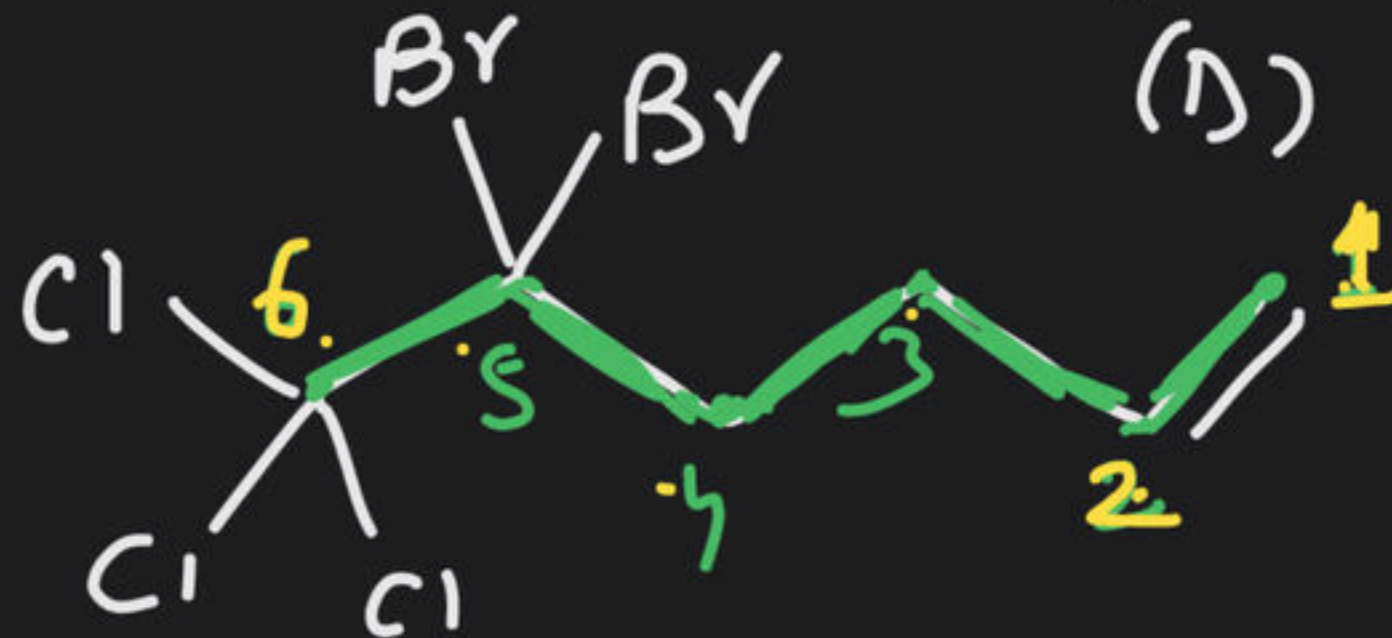
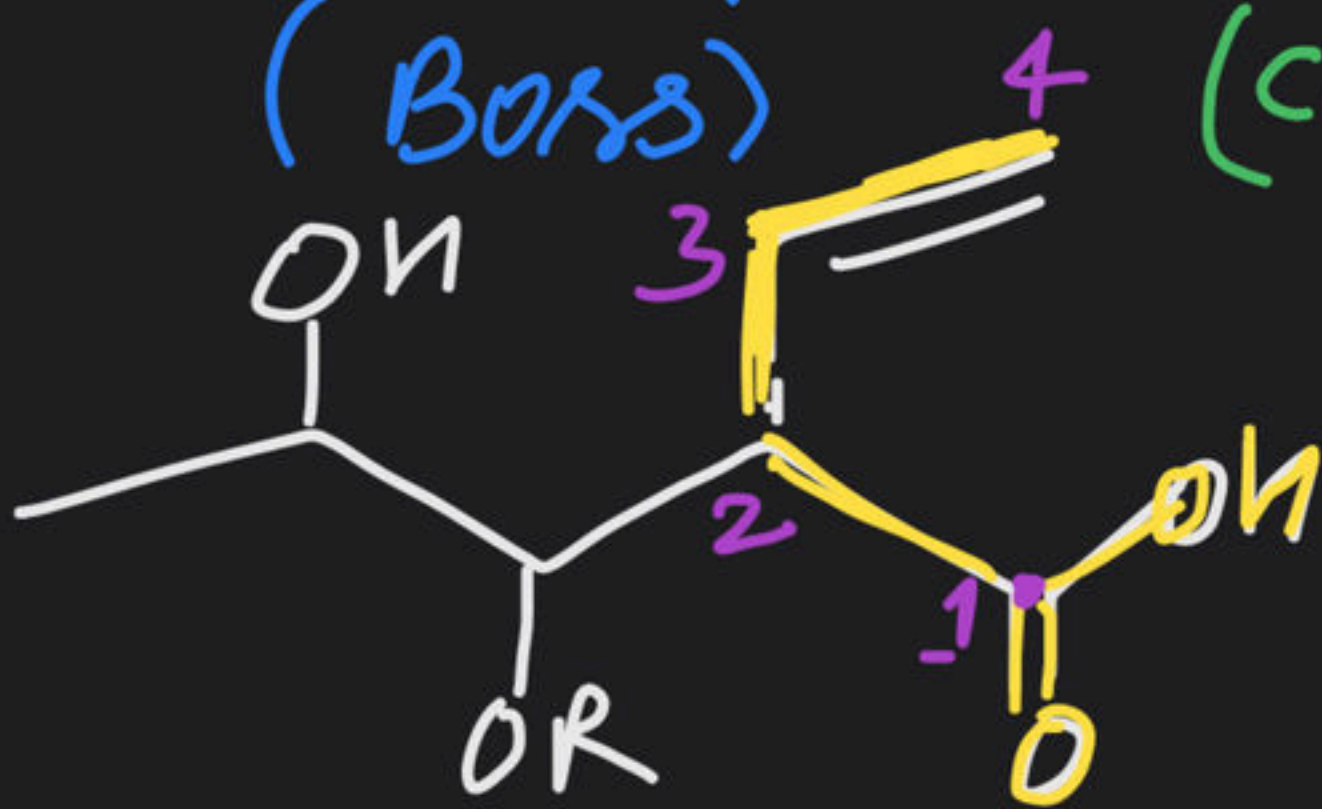
>

Sidechain

functional group  
(Boss)  
Multiple Bond  
(C=C/C≡C)

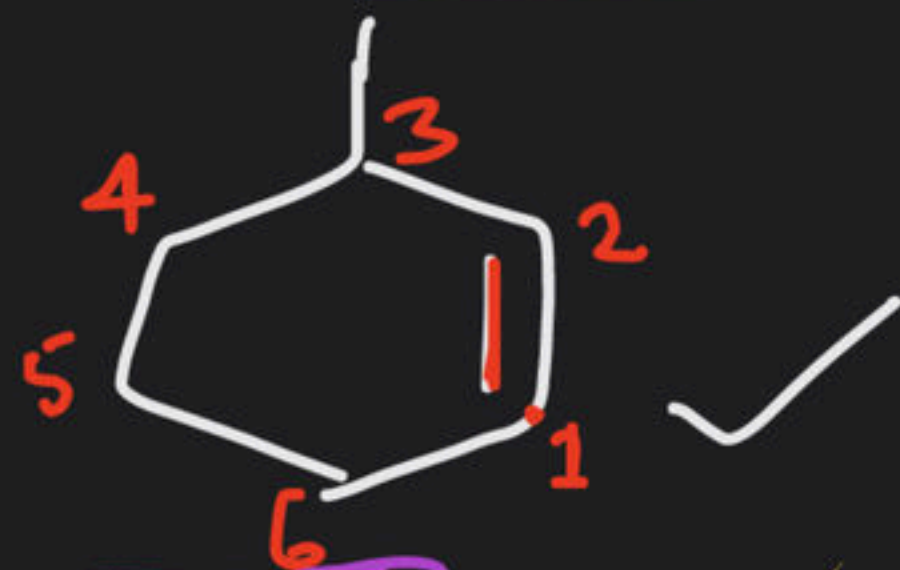
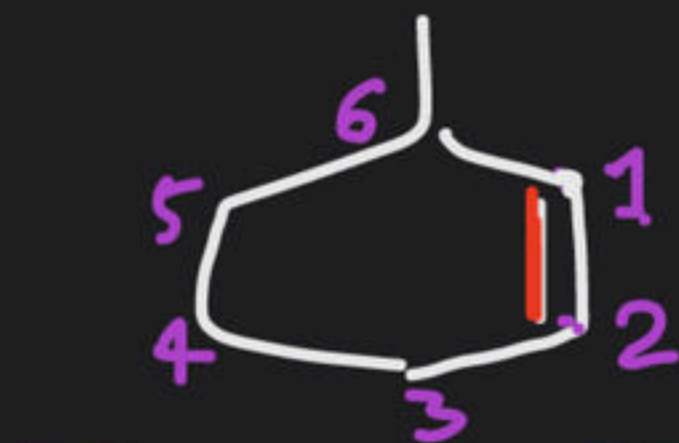
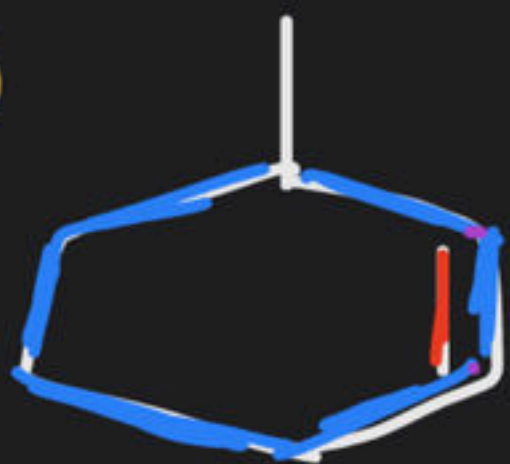
- (A) NO Boss
- (B) -Cl
- (C) -Br
- (D) C=C

Ex 1





(#)

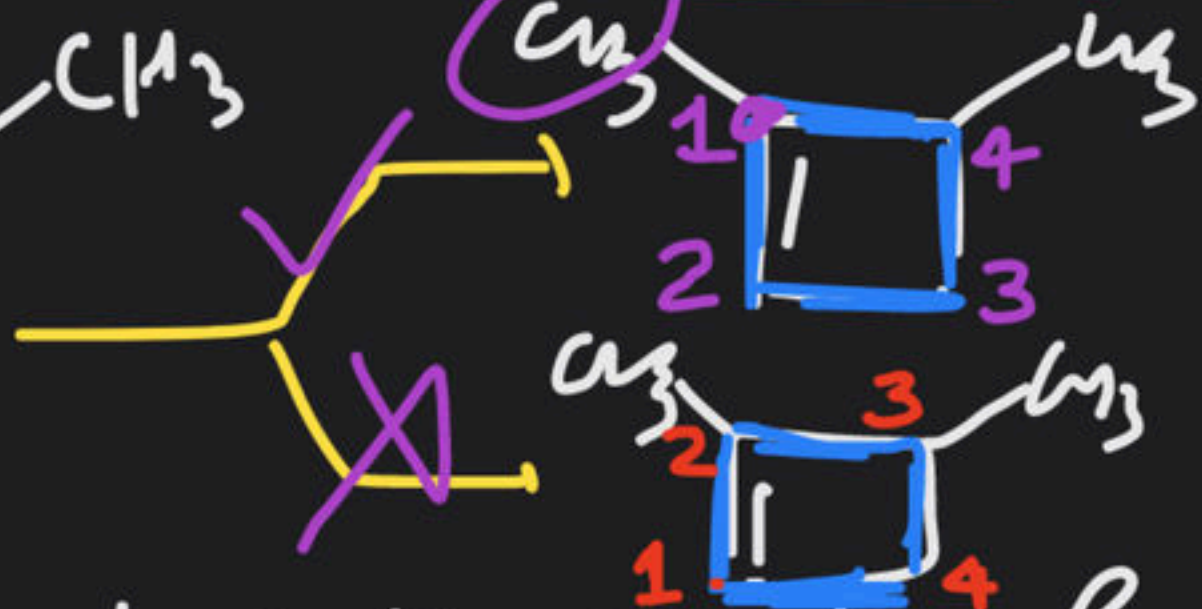
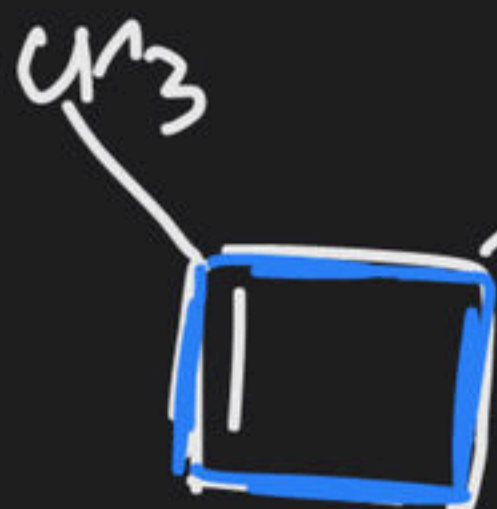


Multiple Bond

Side chain

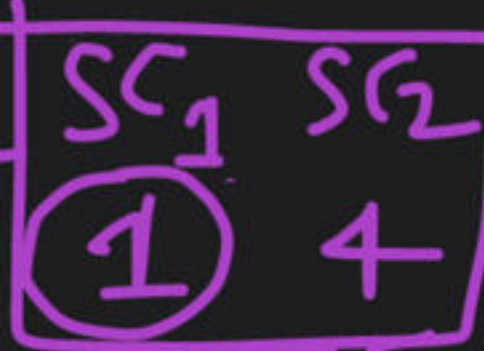
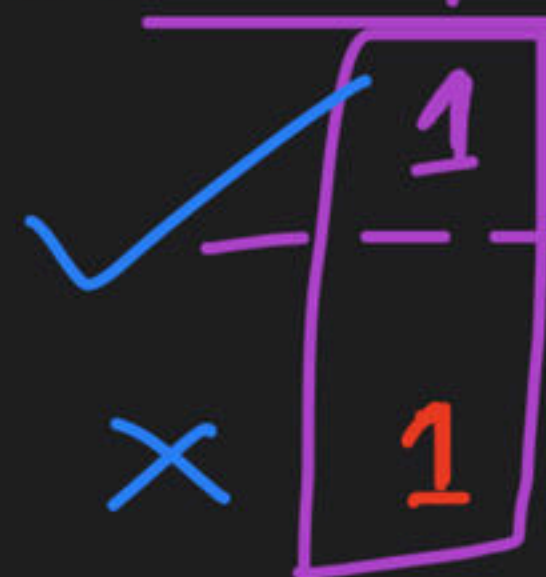


(#)



~~Multiple Bond~~

SC<sub>1</sub> SC<sub>2</sub>



✓

✗

1

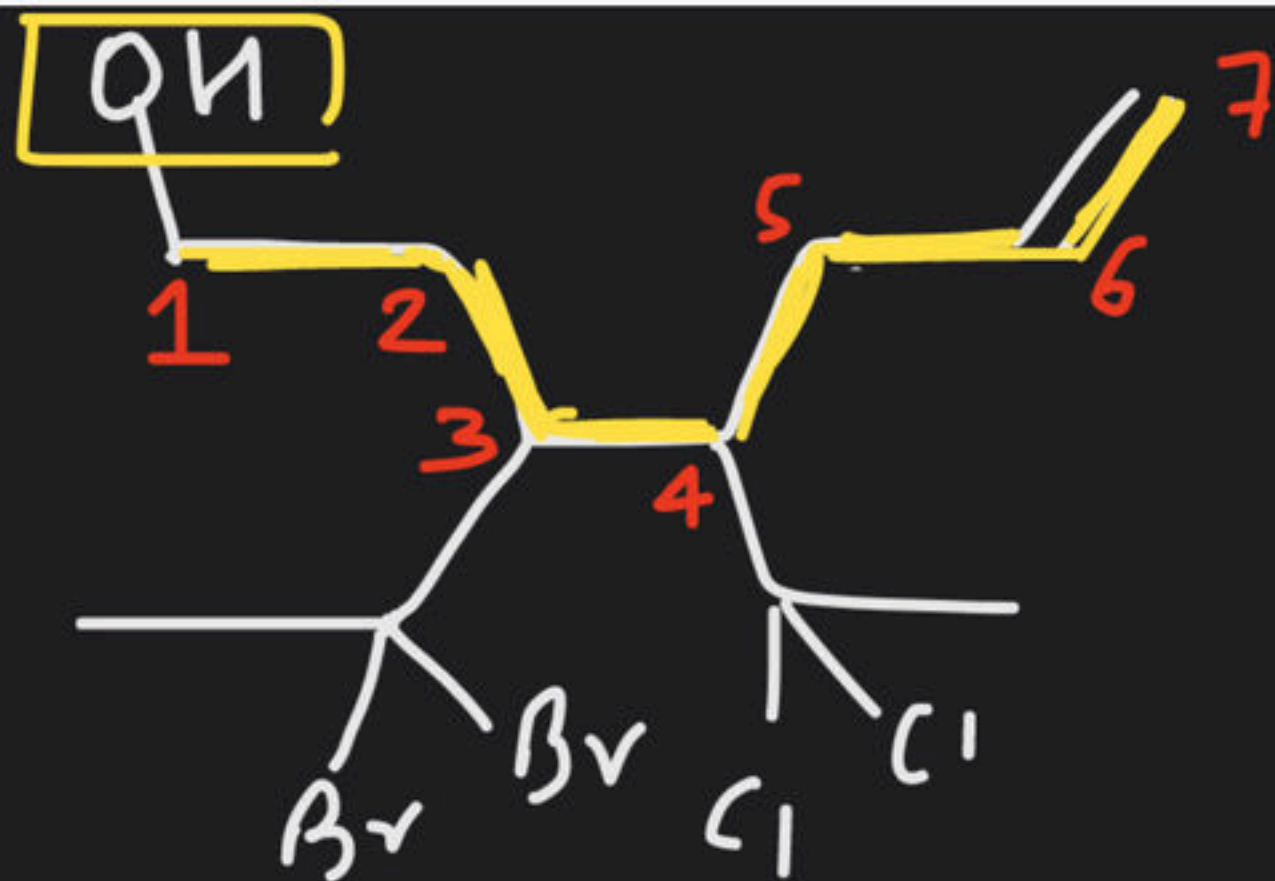
2

3

location of both methyl as per IUPAC Rule

(A) 1,2 (B) 2,3 (C) 1,4 (D) 1,3 (E) NOT

(#)

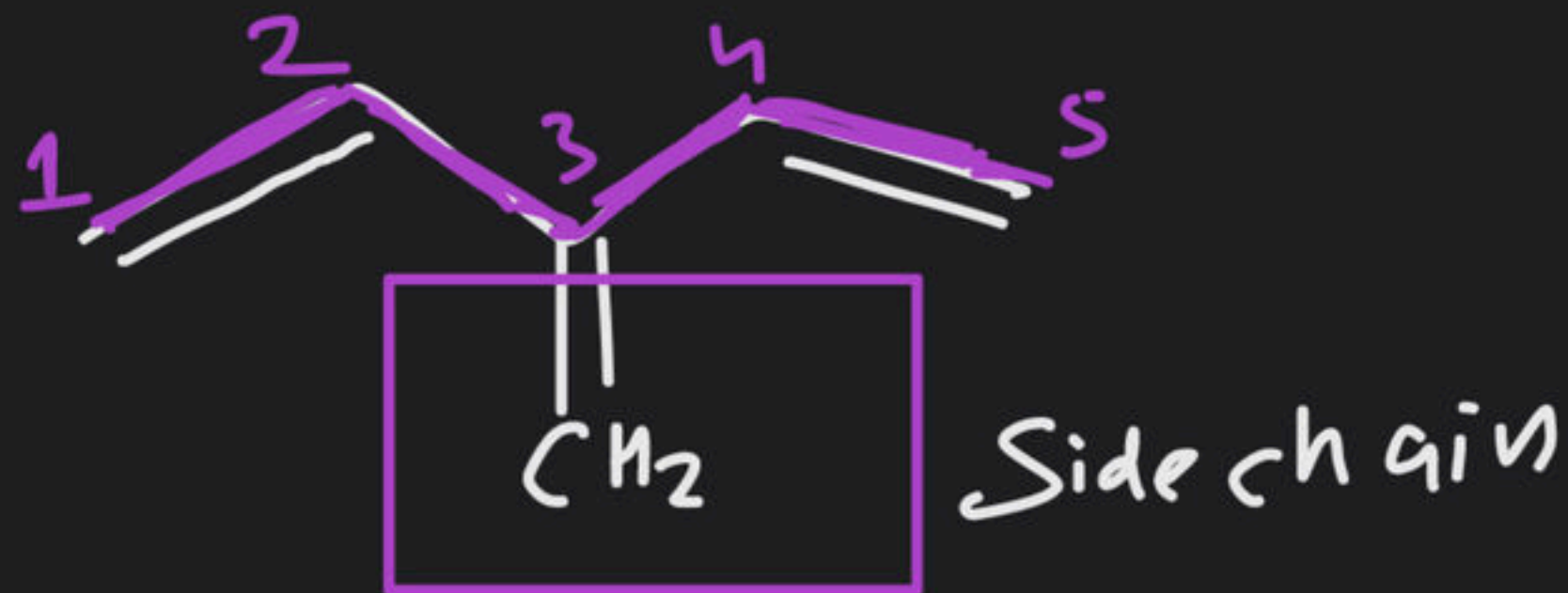


(#)

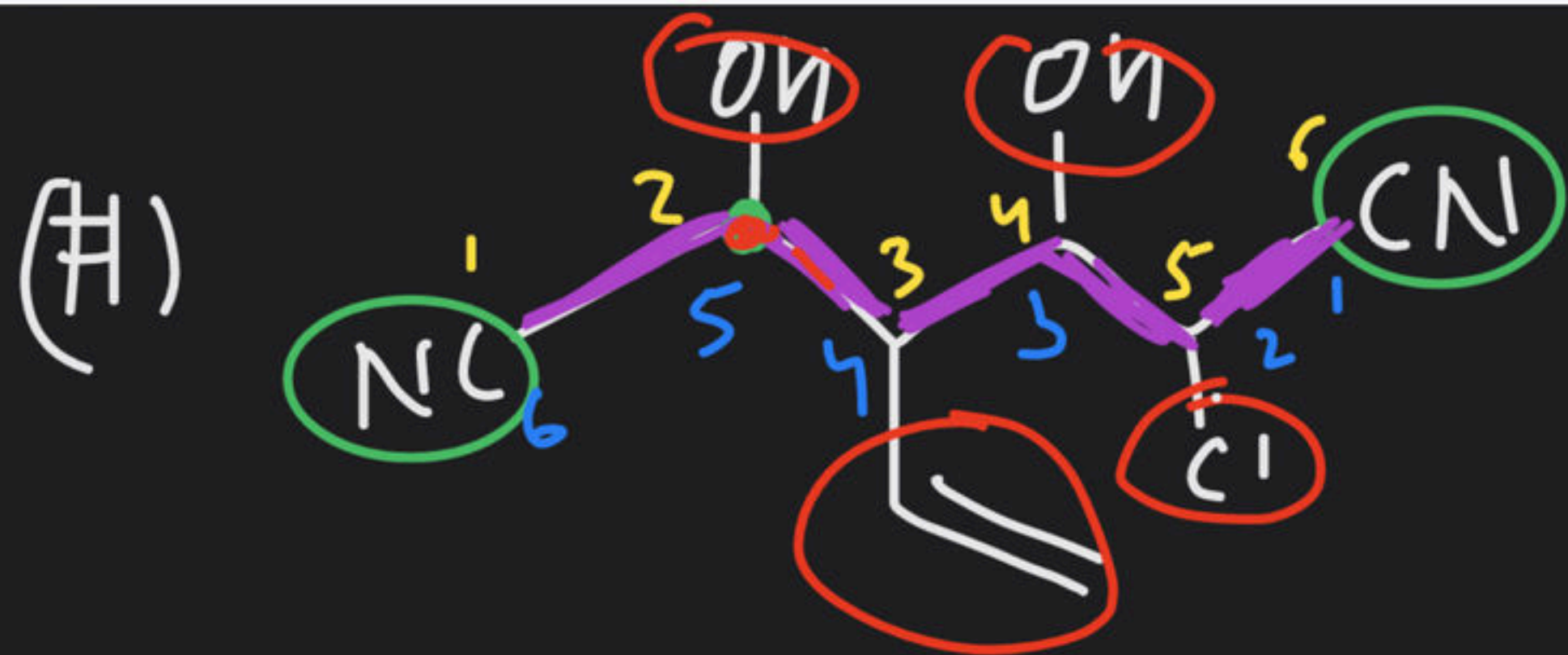


④

(#)







(A) 4  
(B) 5  
(C) 6

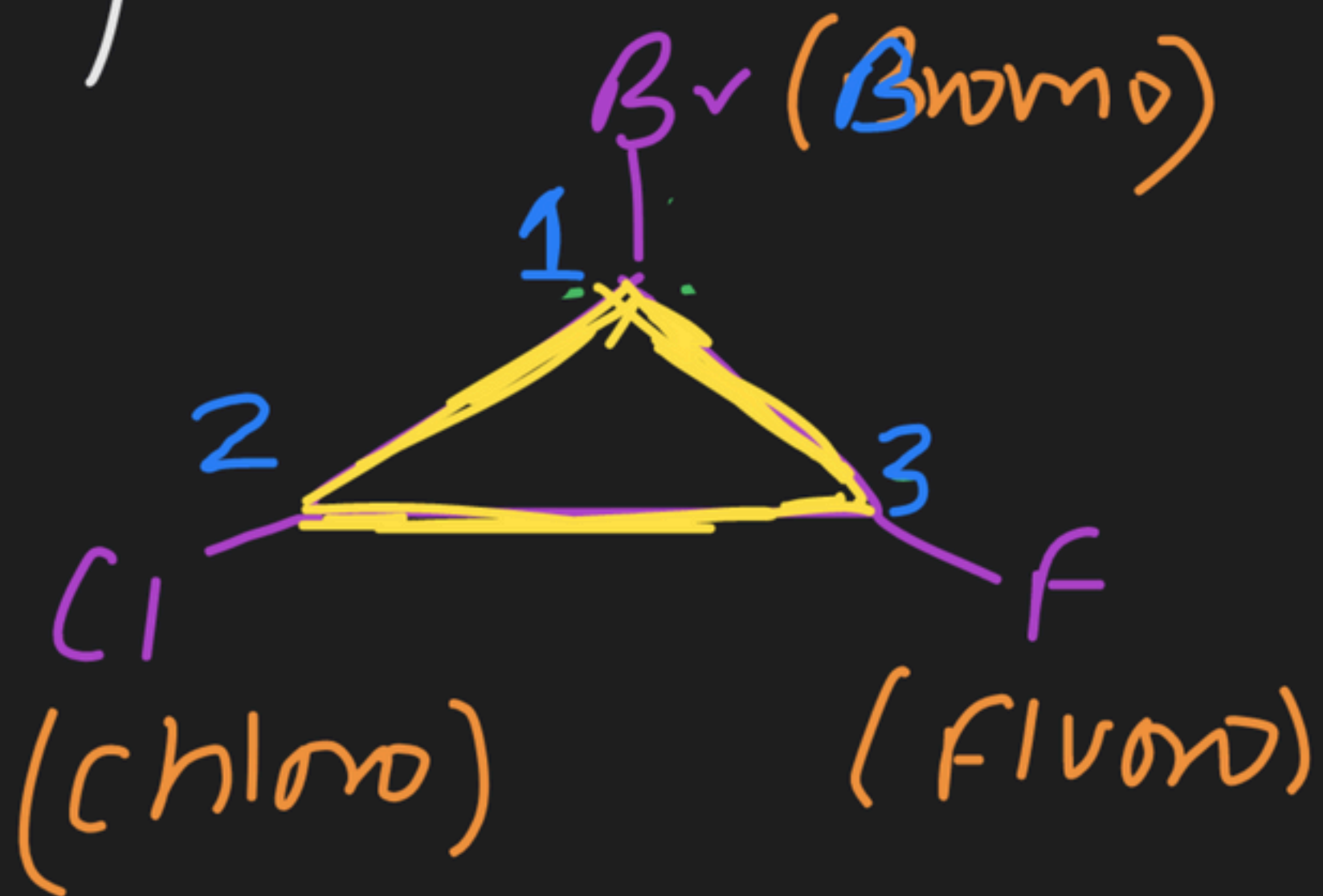
(D) 2

(E) Not a part of principal chain

	BOSS	SC <sub>1</sub>	SC <sub>2</sub>	SC <sub>3</sub>	SC <sub>4</sub>
<u>L-R</u>	1 4 6	2 (OH/Hydroxy)	3	4	5
<u>R-L</u>	1 4 6	2 (Cl)	3	4	5
		(Chloro)			

(#) If numbering is same from L → R & R → L along with same position of BOSS & multiple bond then

numbering is done on behalf alphabetical order  
of name of side chain



(SC<sub>1</sub>)

1

1

(SC<sub>2</sub>)

2

2

(SC<sub>3</sub>)

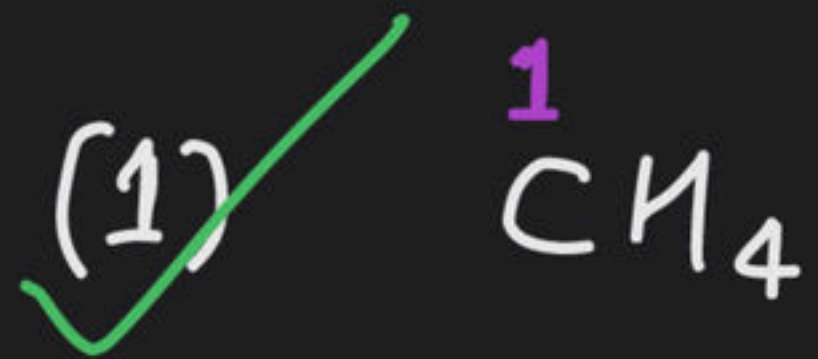
3

3

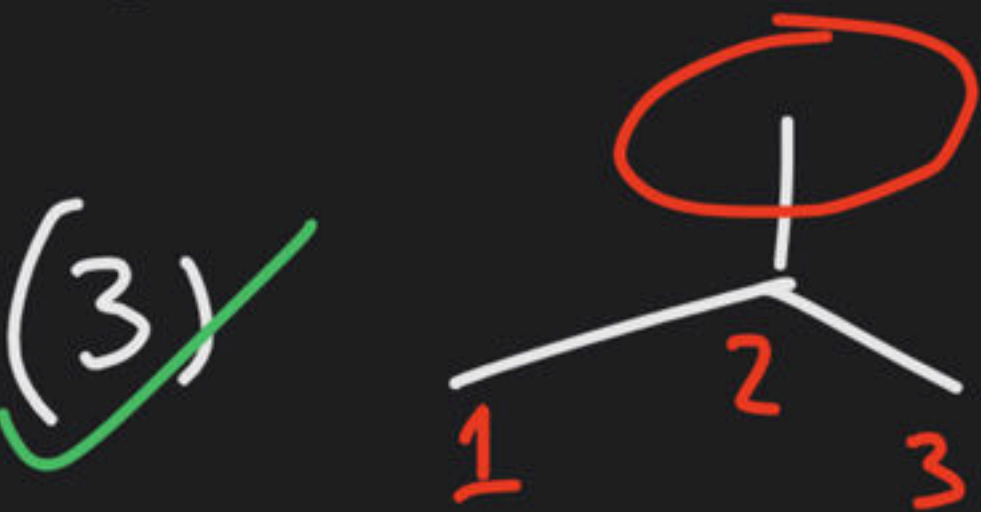


# (#) Nomenclature of Hydrocarbon

Alkane, Alkene & Alkyne:

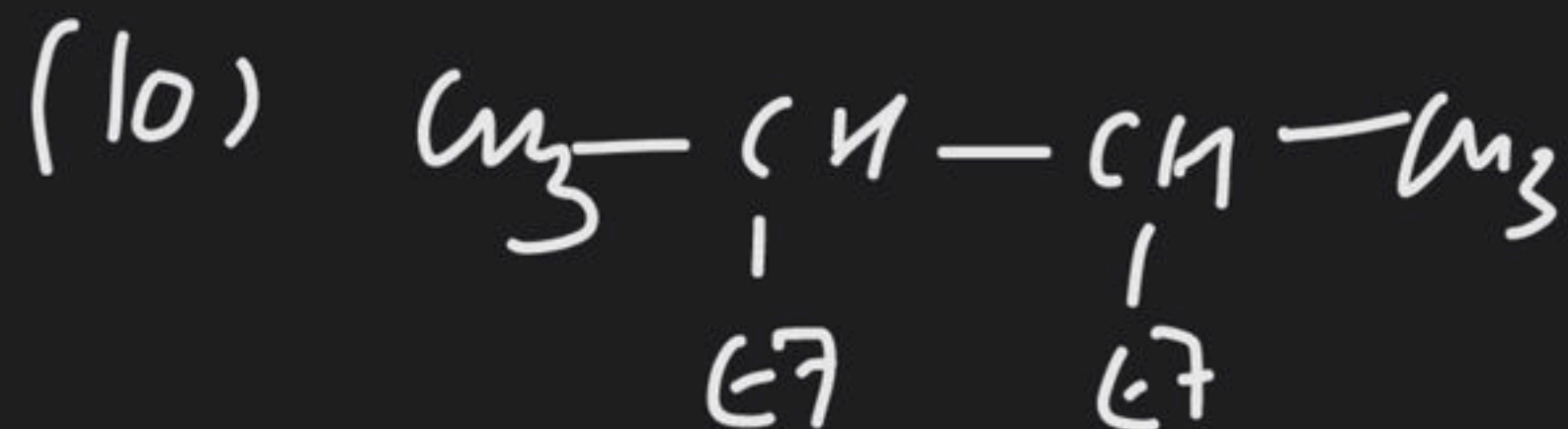
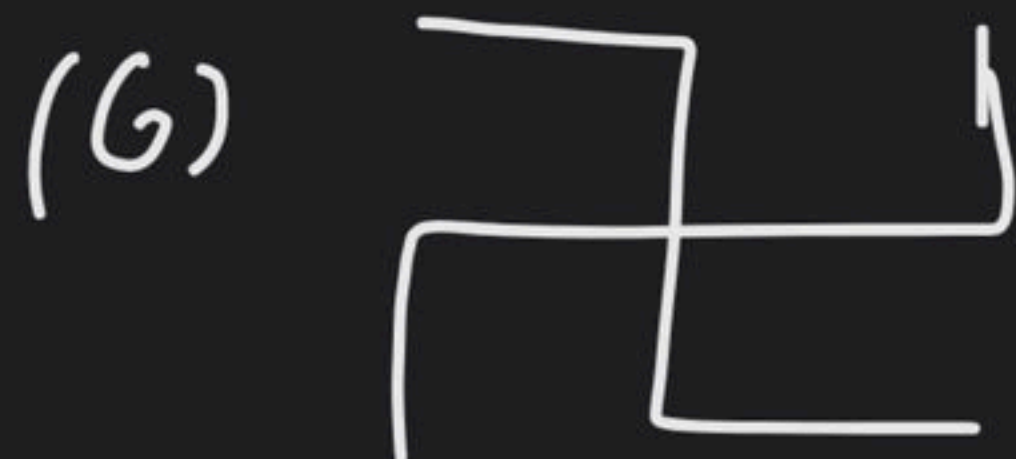


~~2°~~ ~~1°~~ <sup>(w.r) (1° suffix)</sup> Methane X

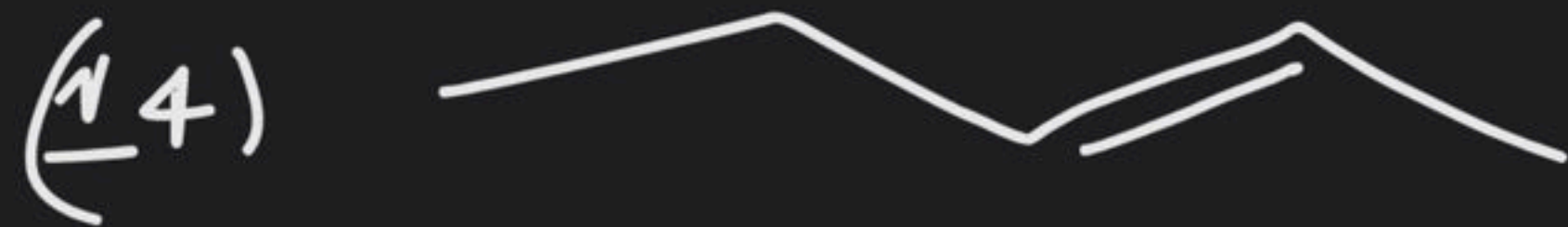


2-Methylpropane

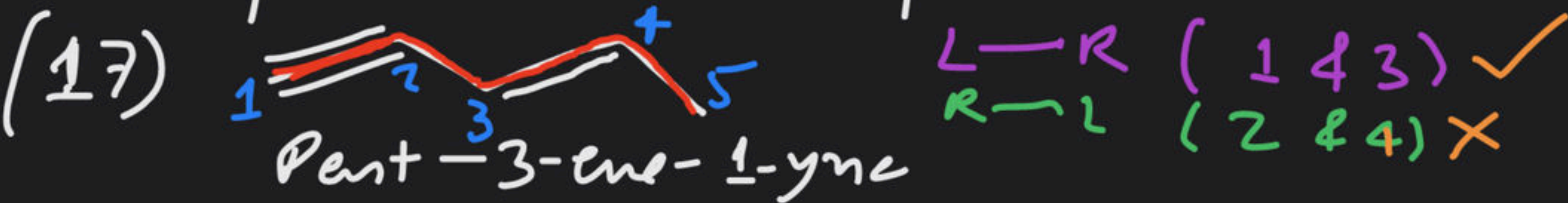




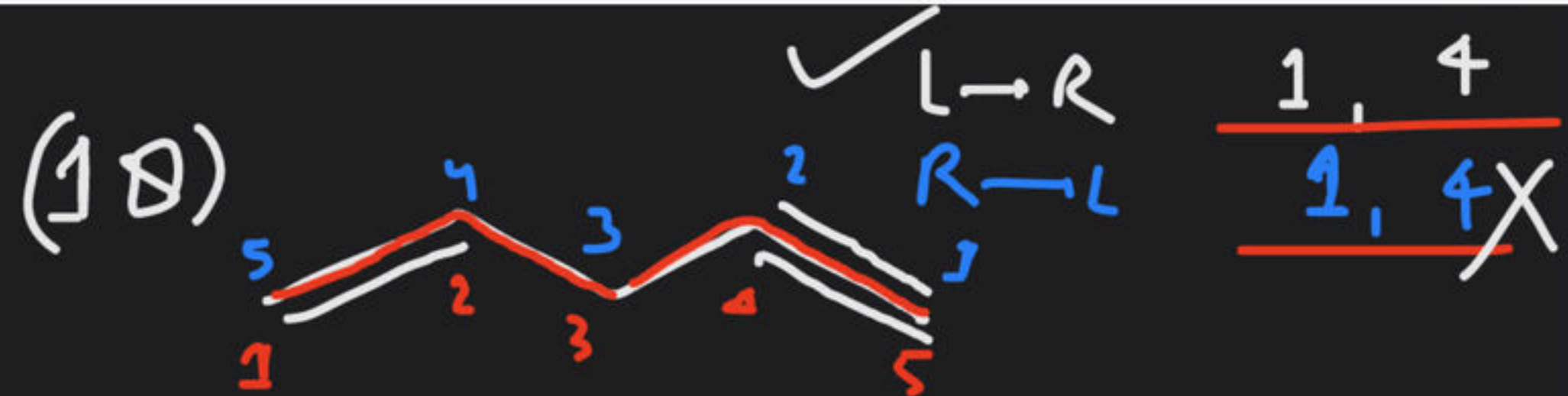




pent-1-ene-3-yne



pent-3-ene-1-yne



pent-1-ene-4-yne



(1 4 3) ✓  
(2 4 4) ✗

(1 4 3) ✓  
(2 4 4) ✗

(21)



(22)



(23)



(24)



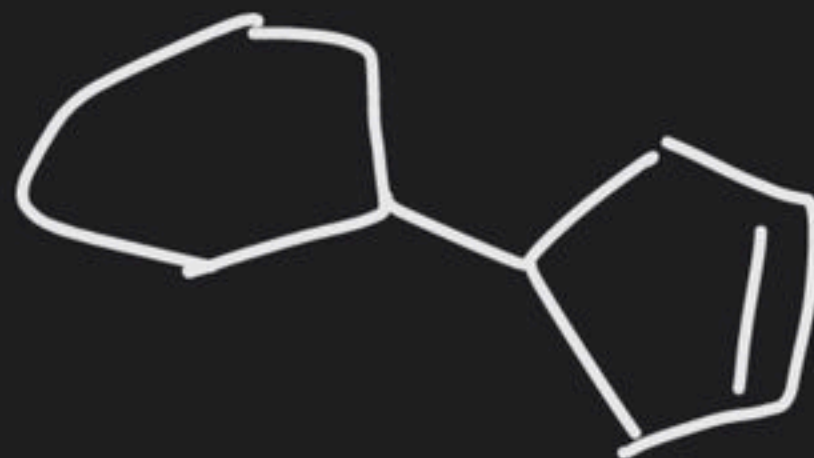
(25)



(26)



(27)



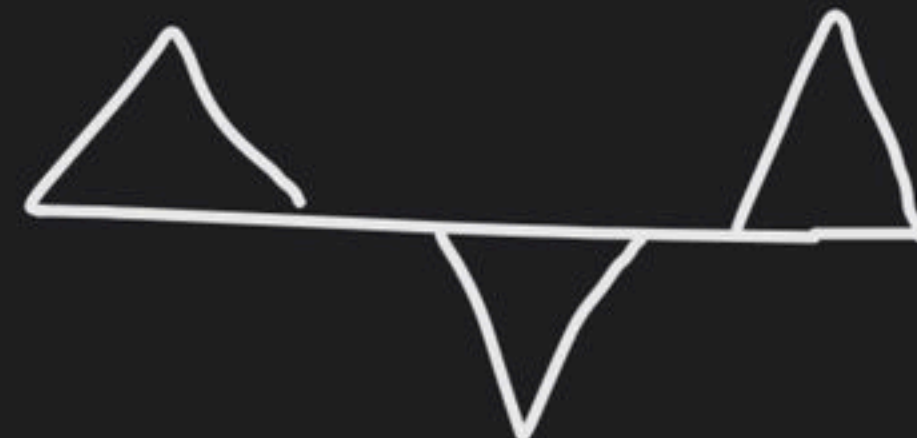
(28)



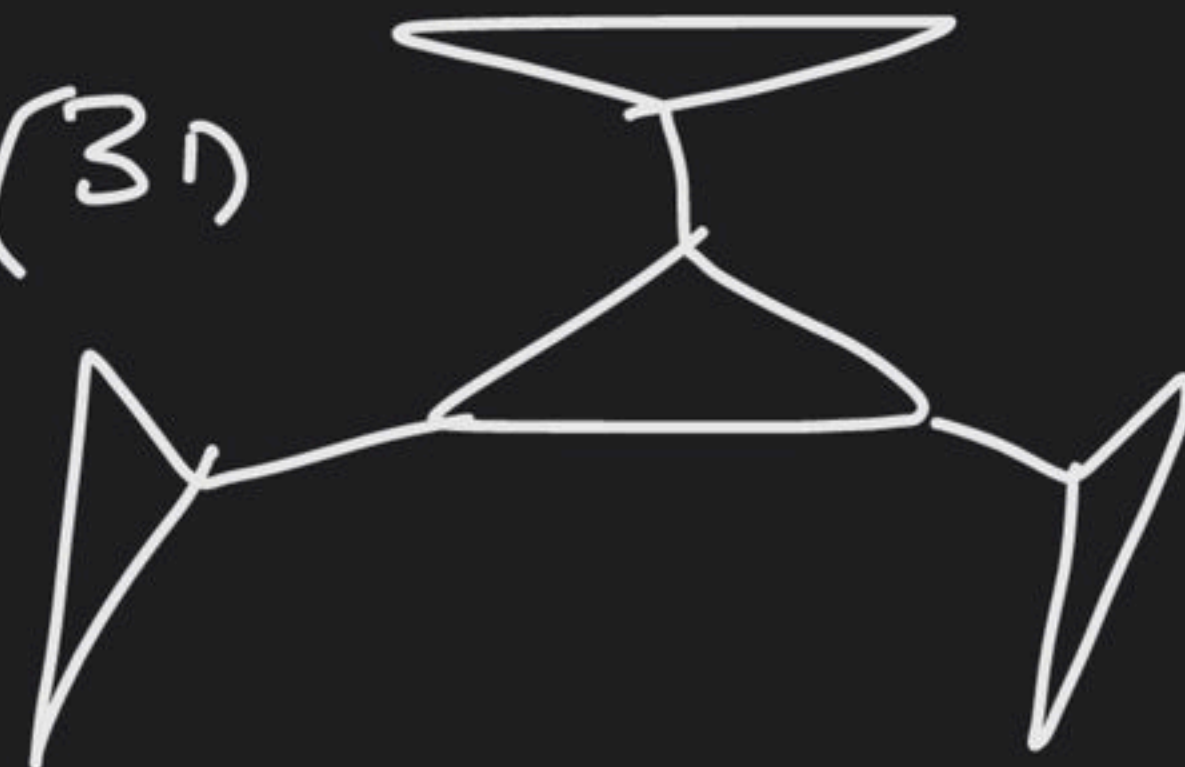
(29)



(30)

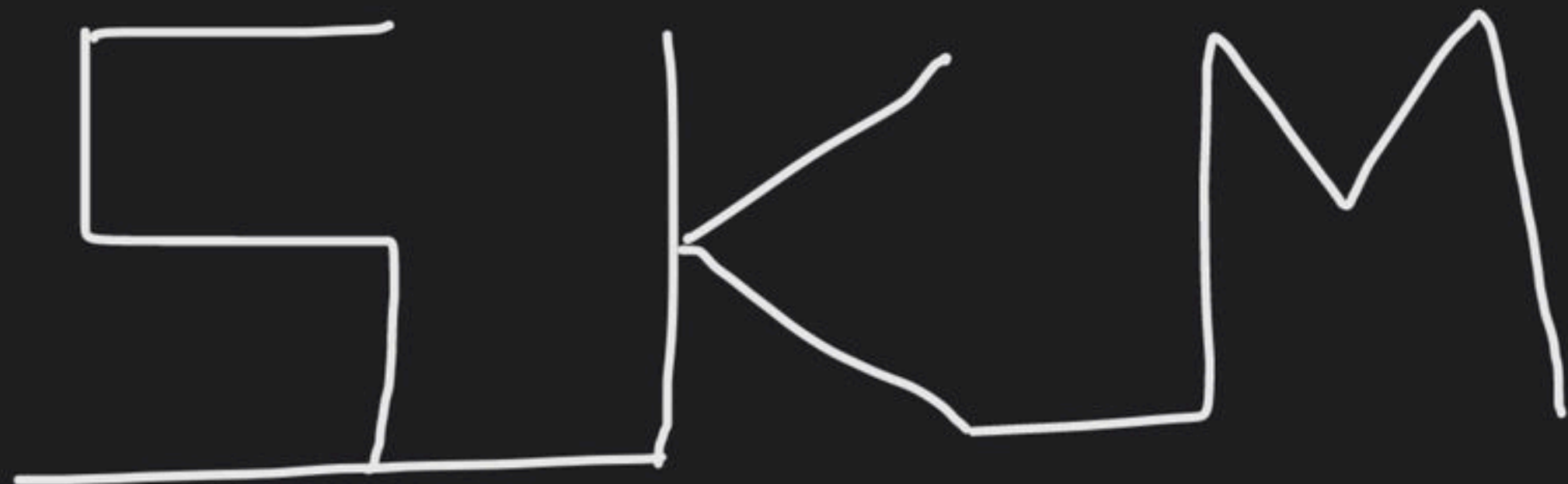


(31)





(32)



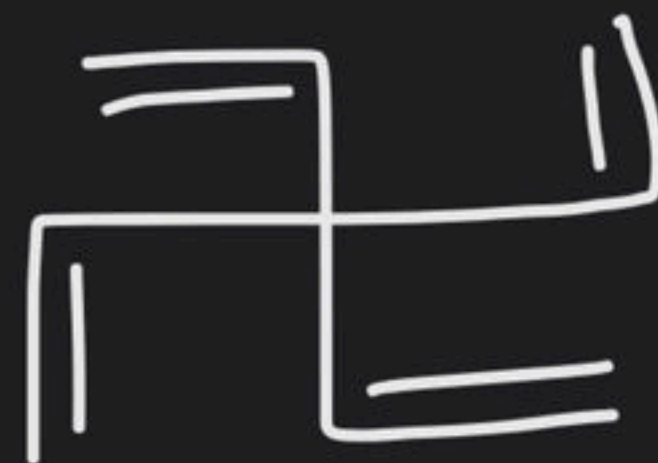
(35)



(33)



(36)



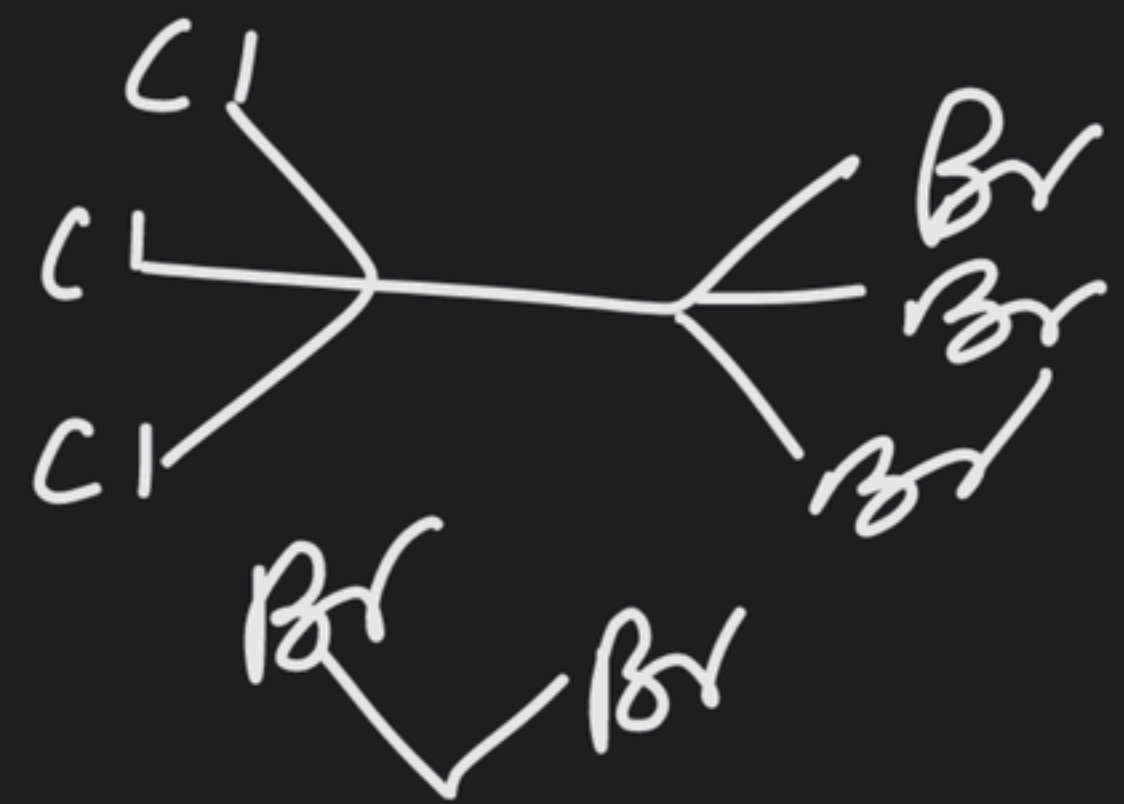
(34)



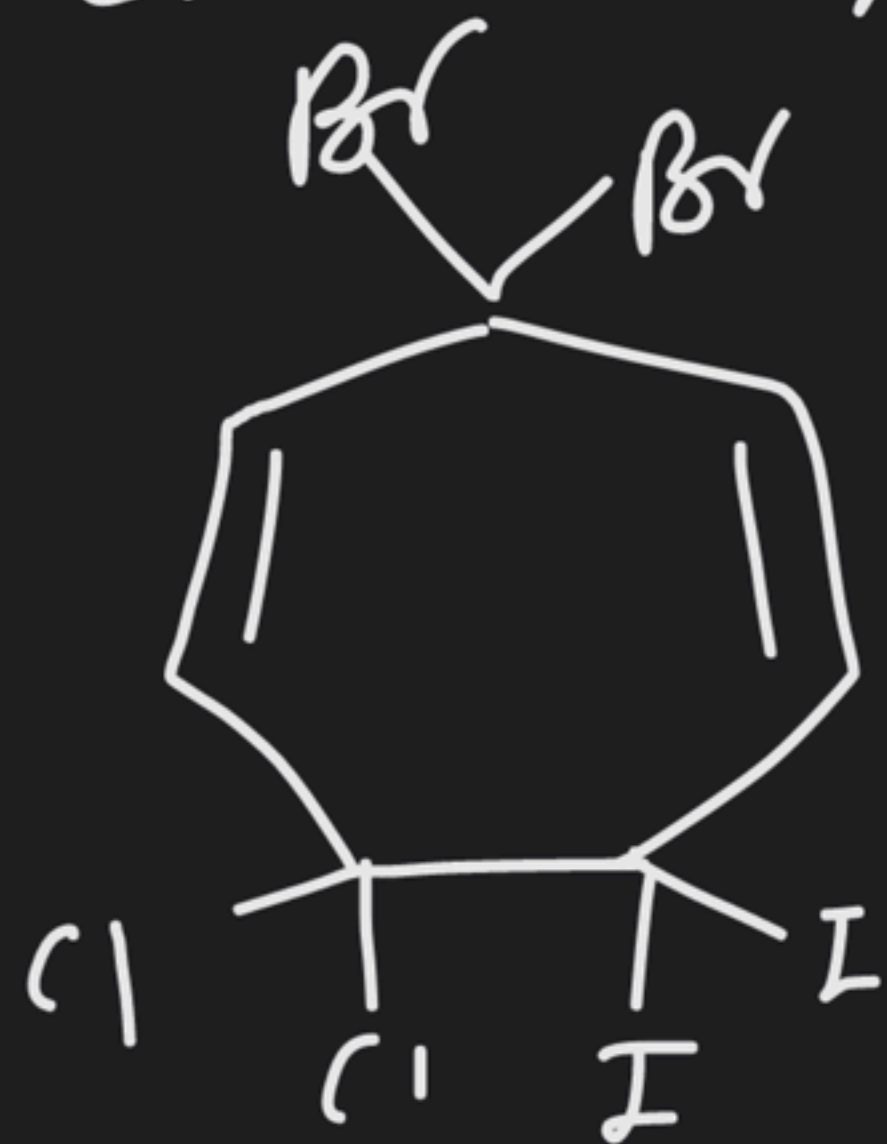
(37)



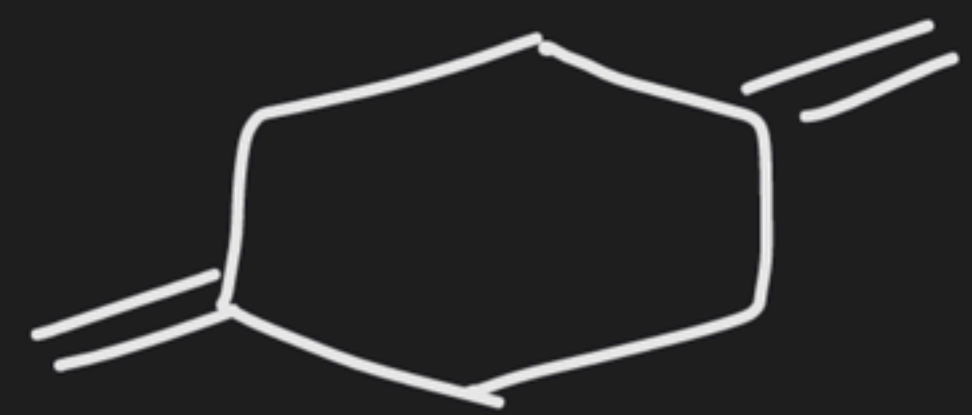
(38)



(39)

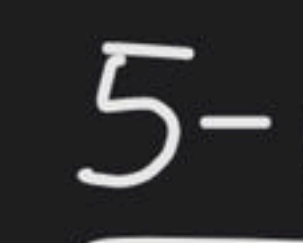


(40)



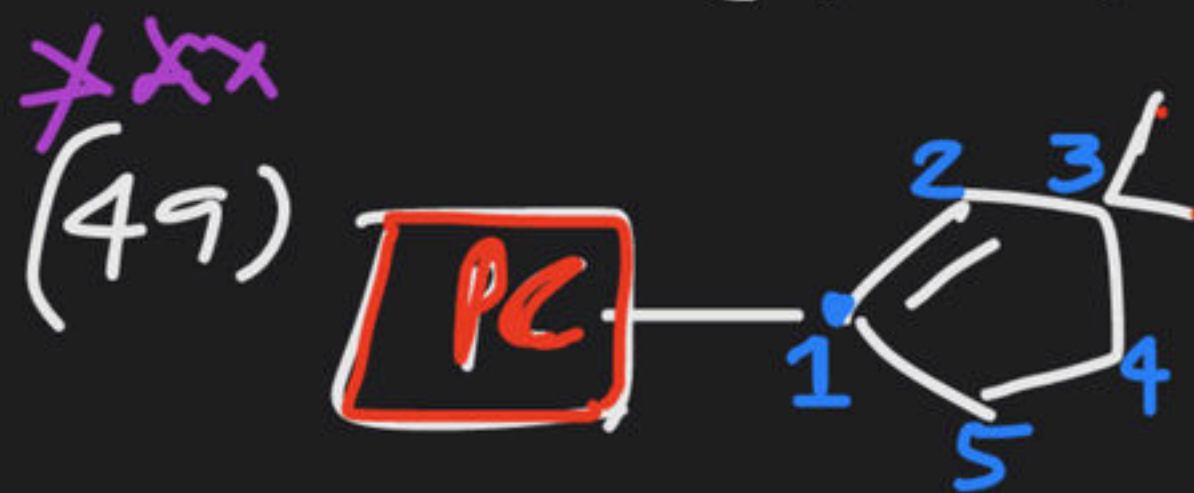
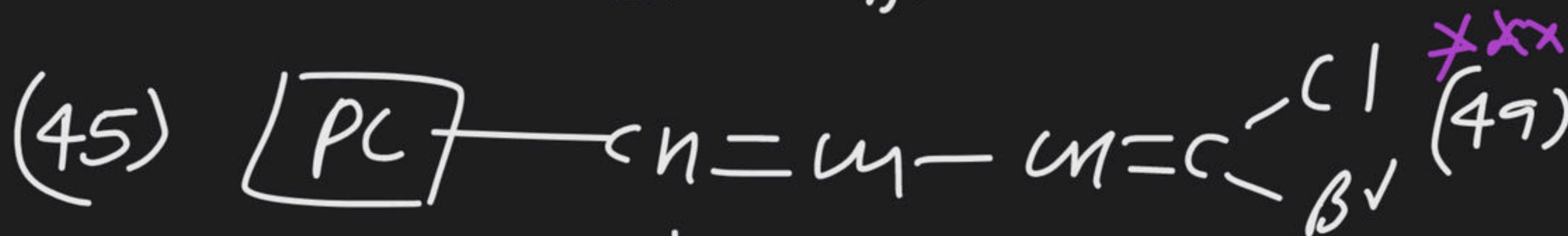
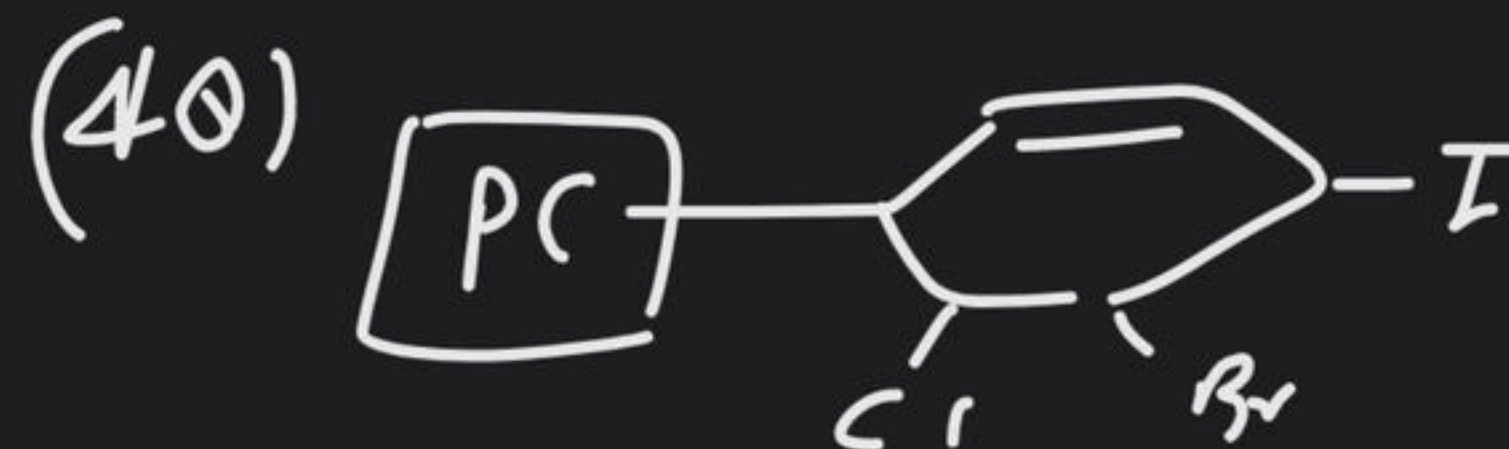
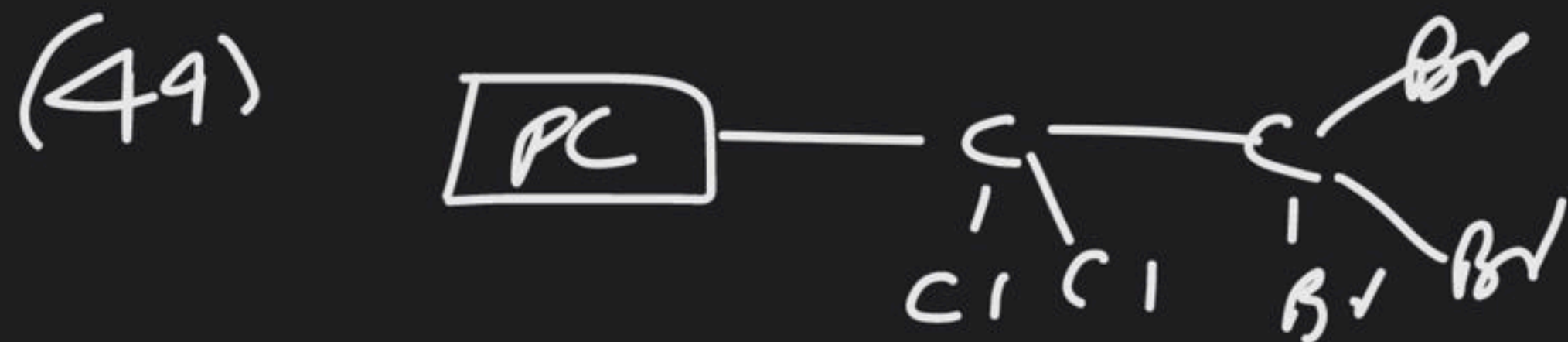
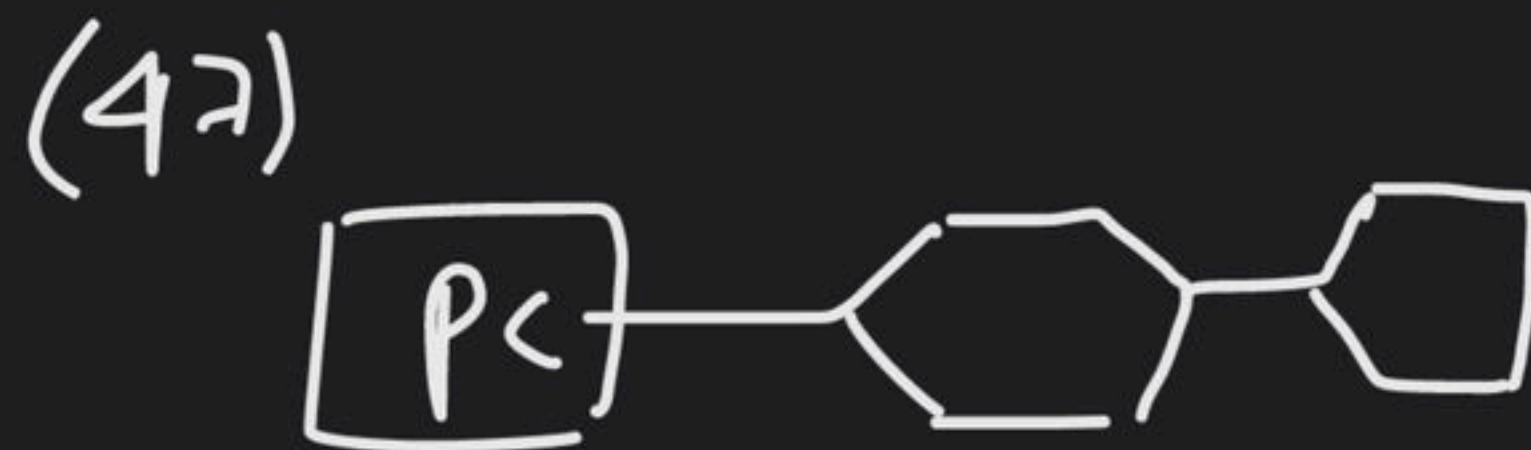
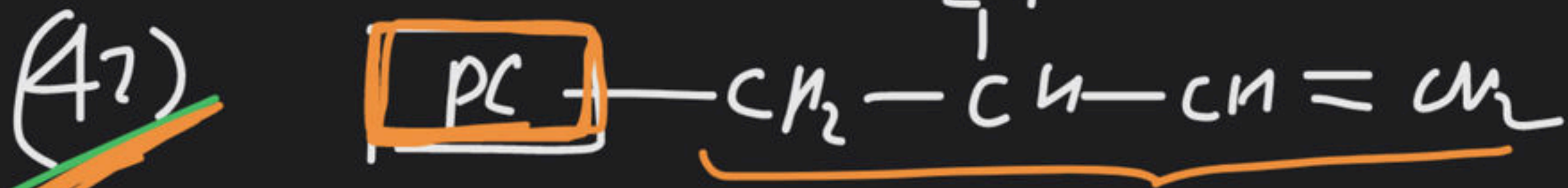


(41)



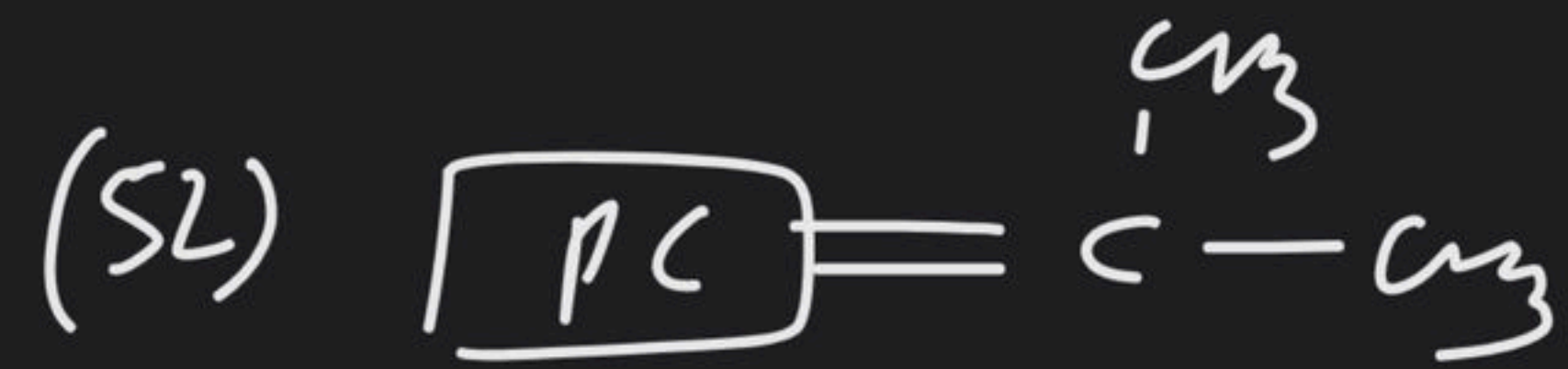
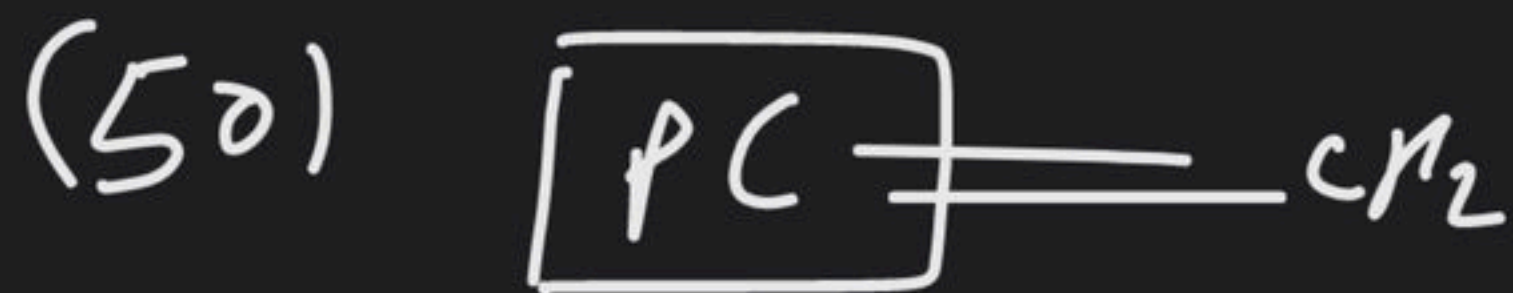
# Nome



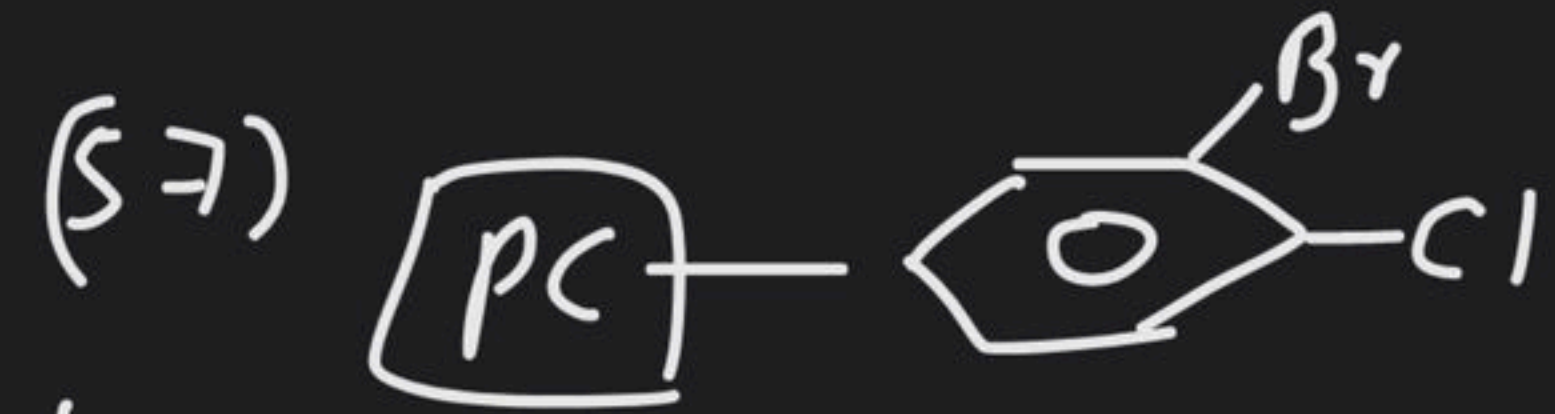
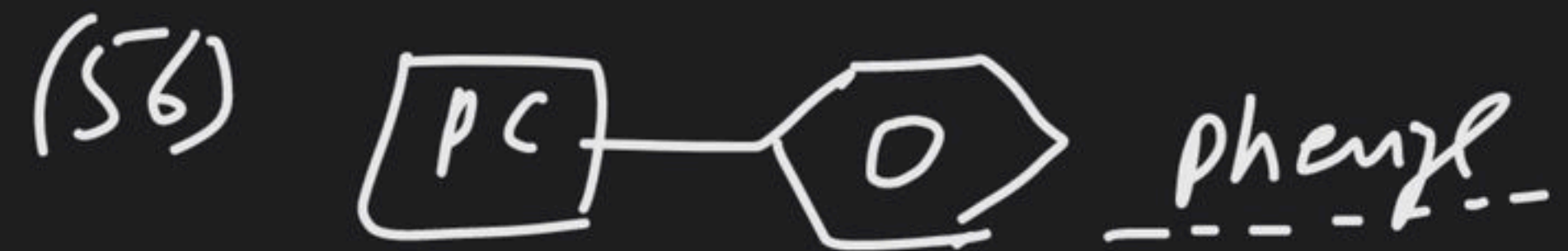
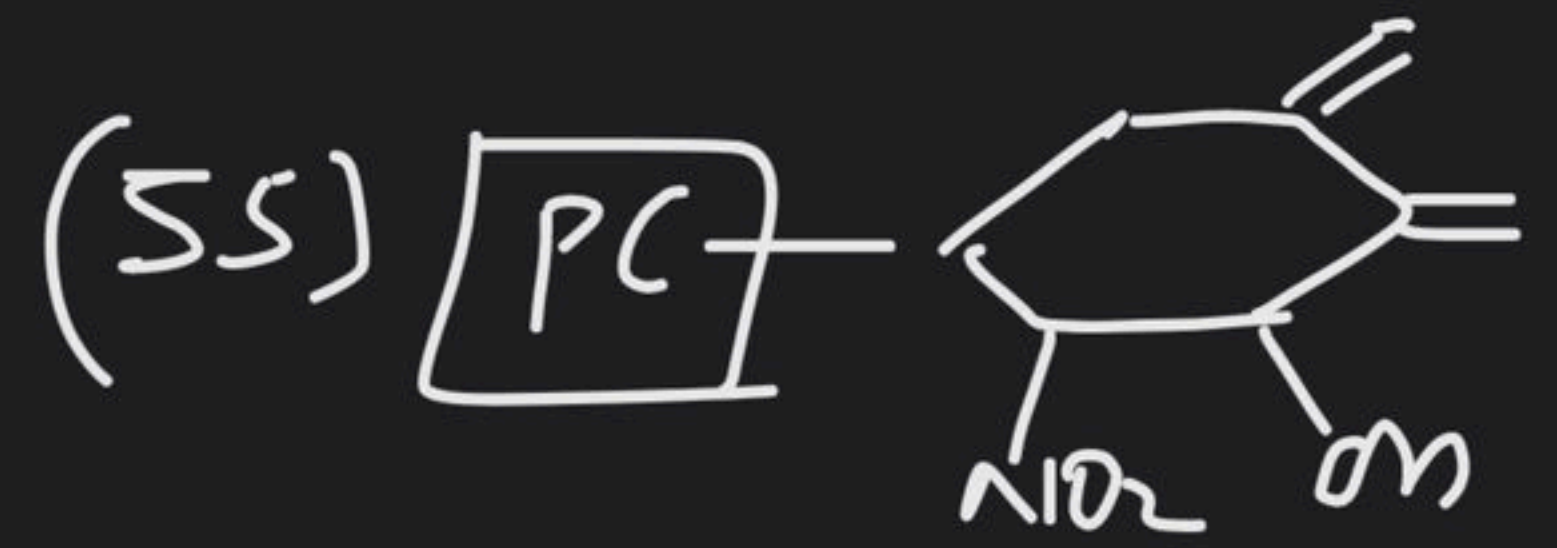
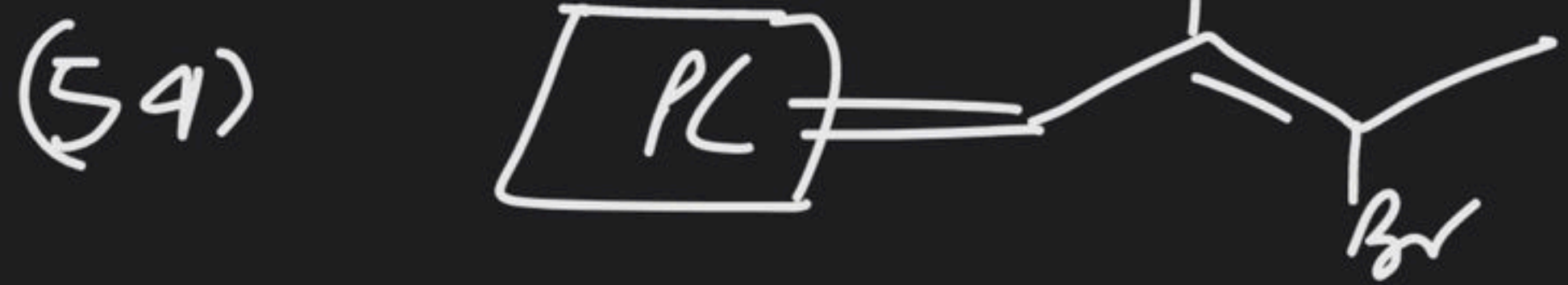
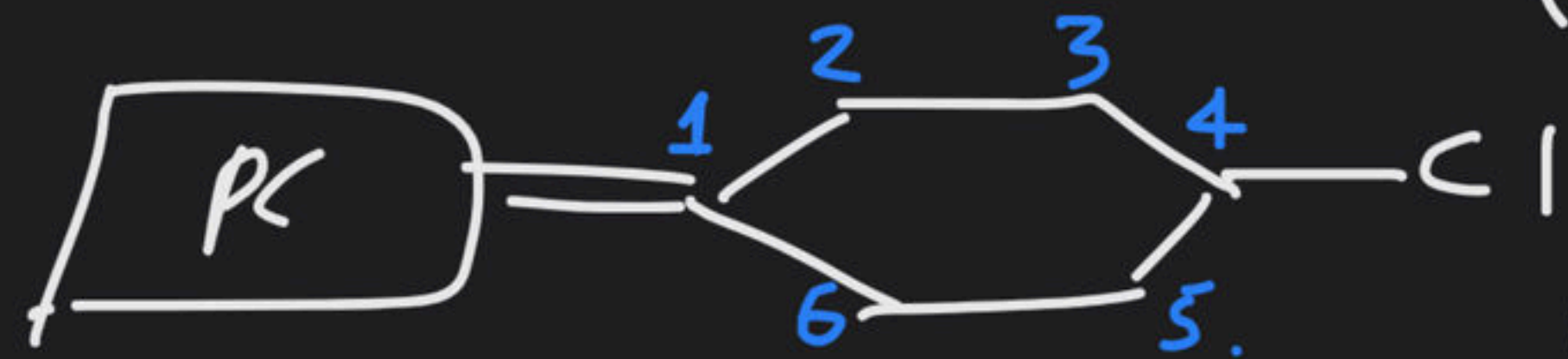


(3,3-Dimethylcyclopent-1-ene)

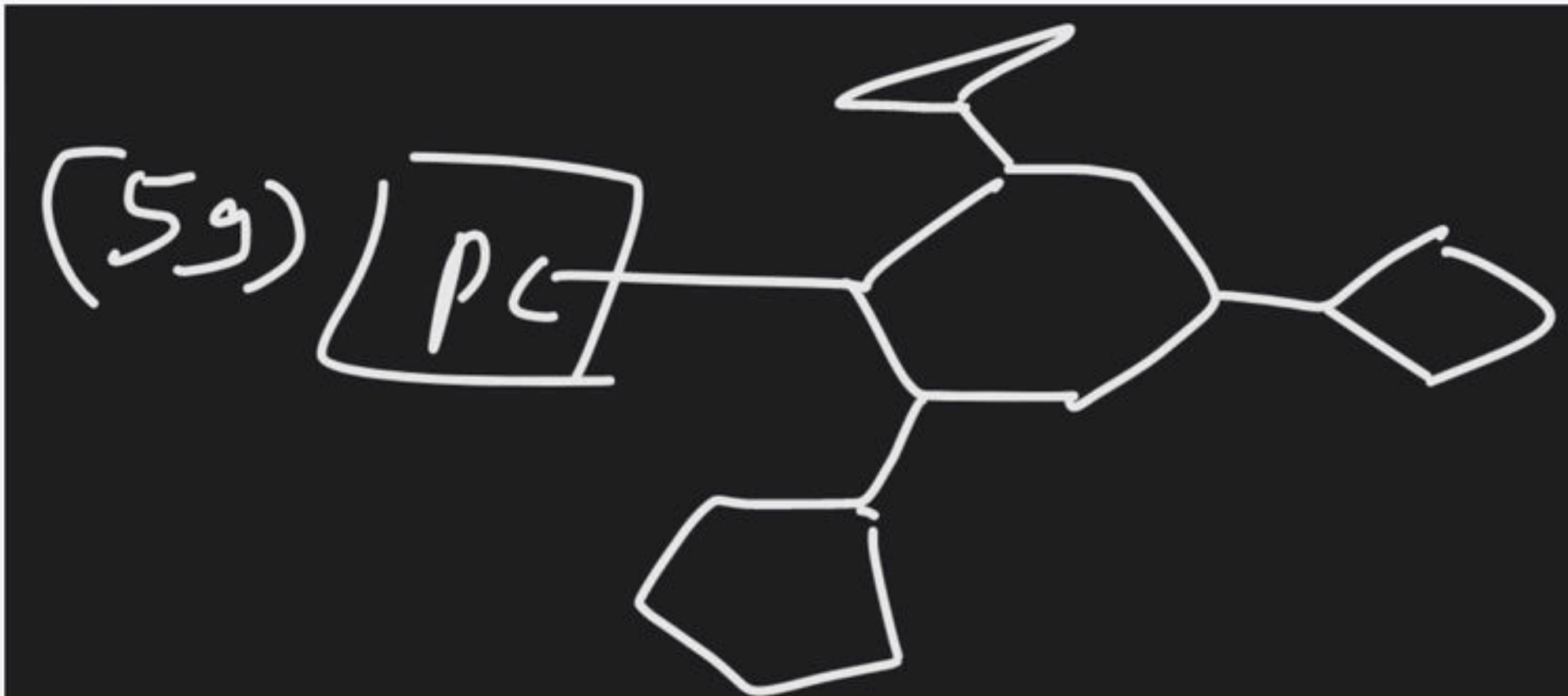




~~53~~ ~~54~~  
(53)



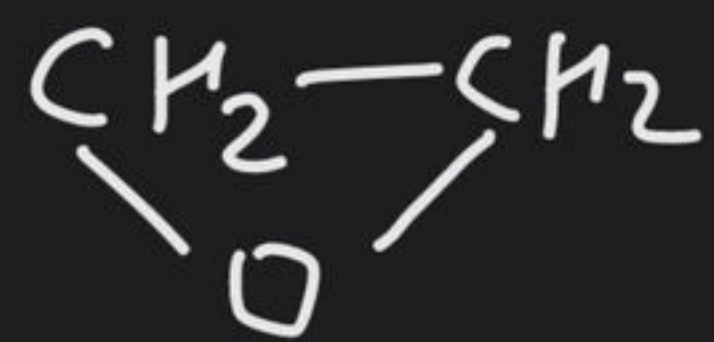
(4-chloro cyclohexylidene)



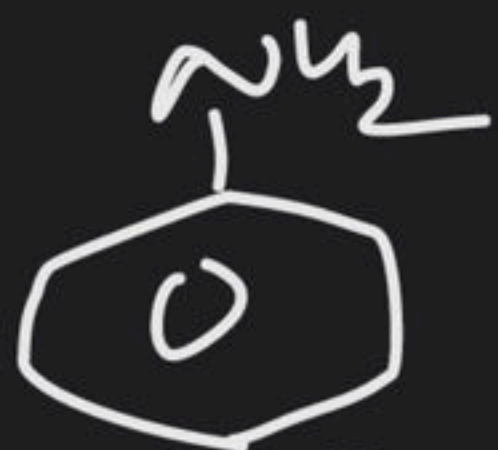


(1-10)  
(10-20)

(14)(C)



ethylene oxide  
or  
(Oxirane)



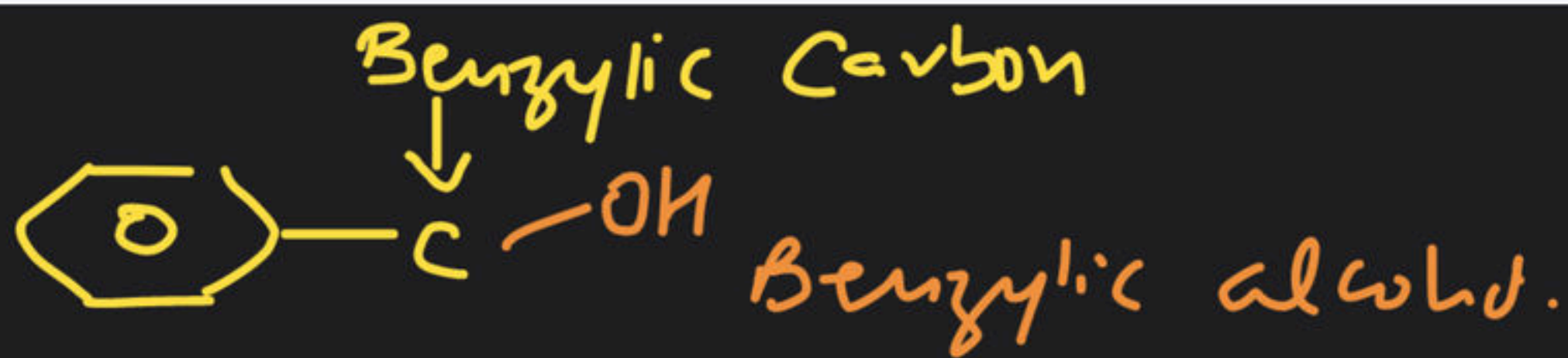
Aniline.



phenol



(50)

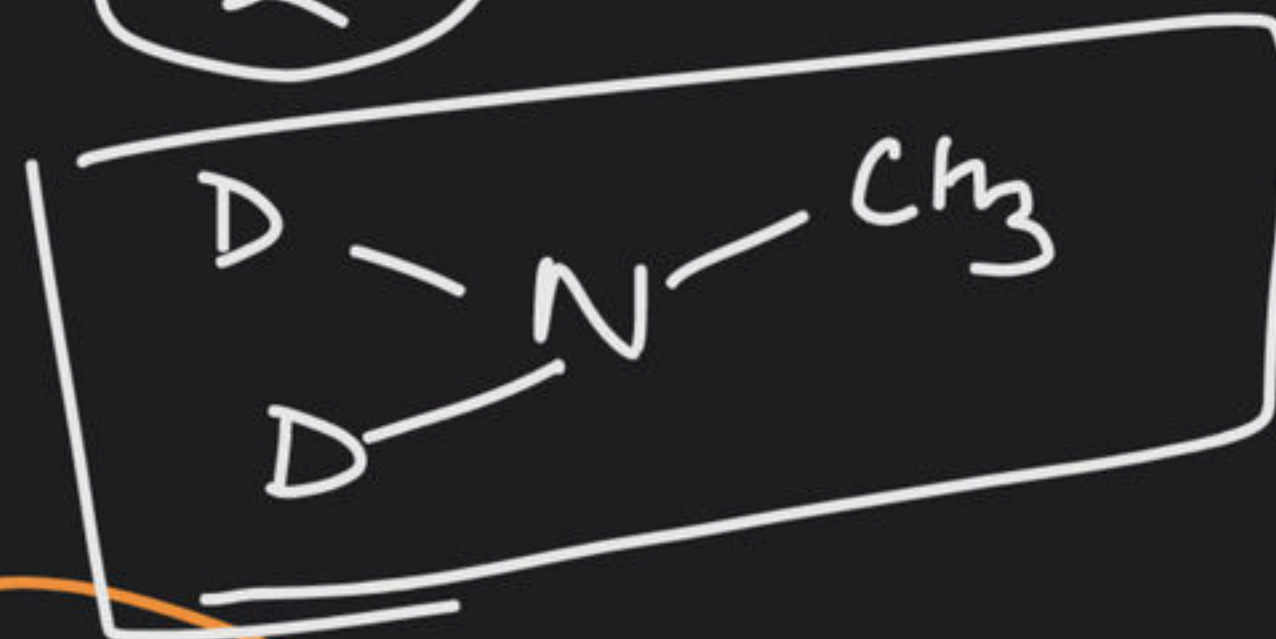
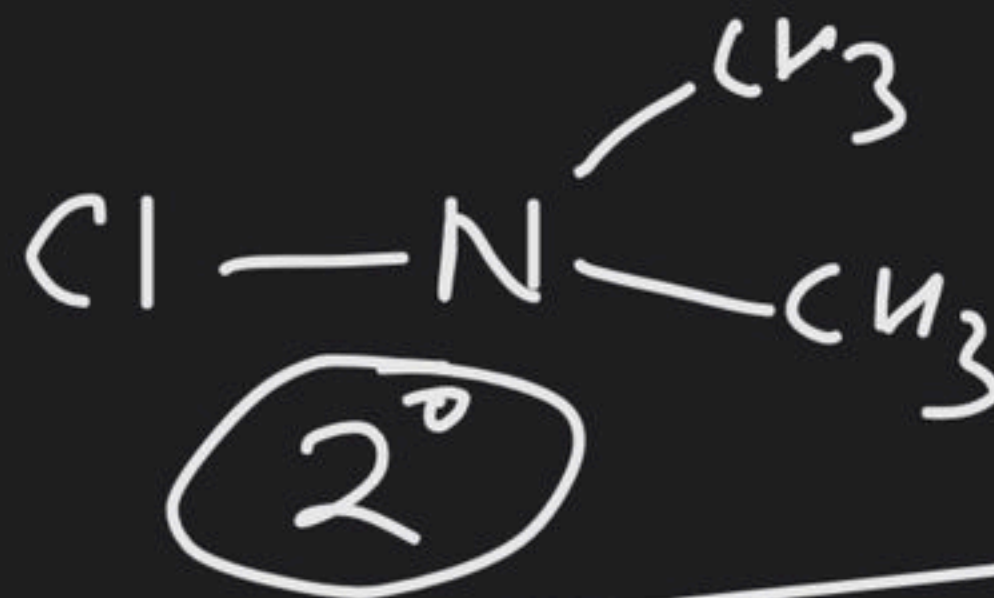


(57)



Secondary. Nitr.

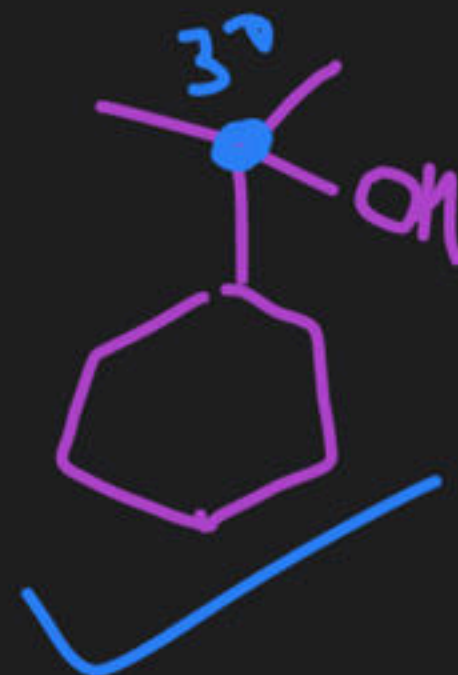
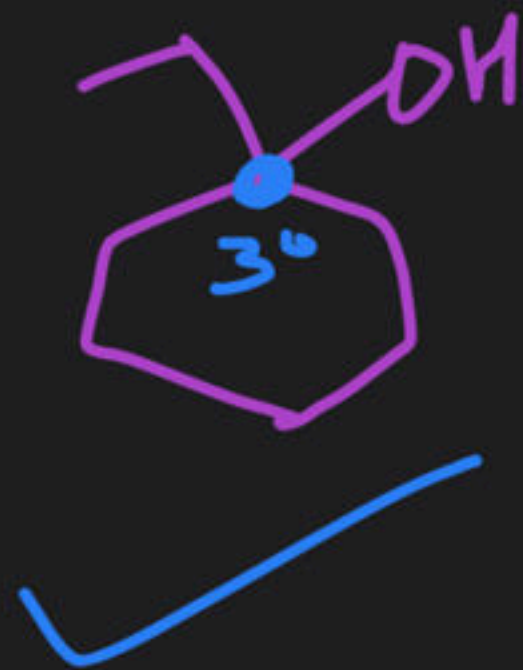
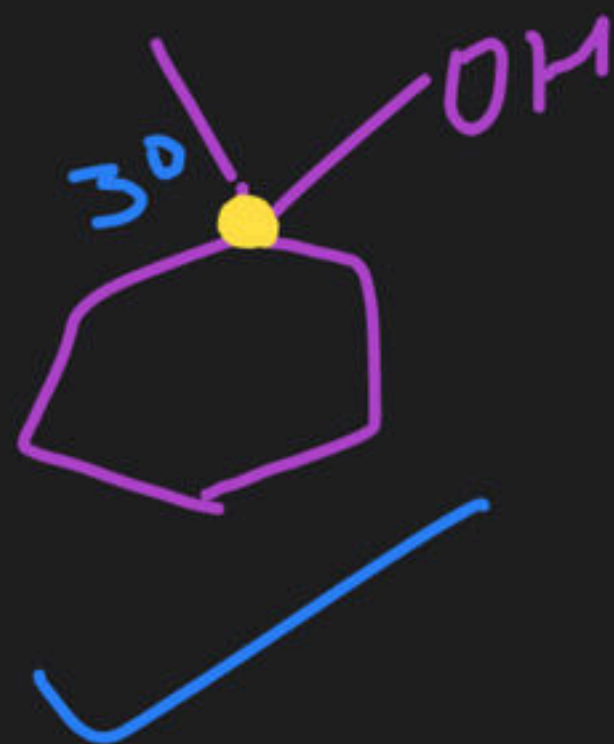
(59) D



Acid  
amide

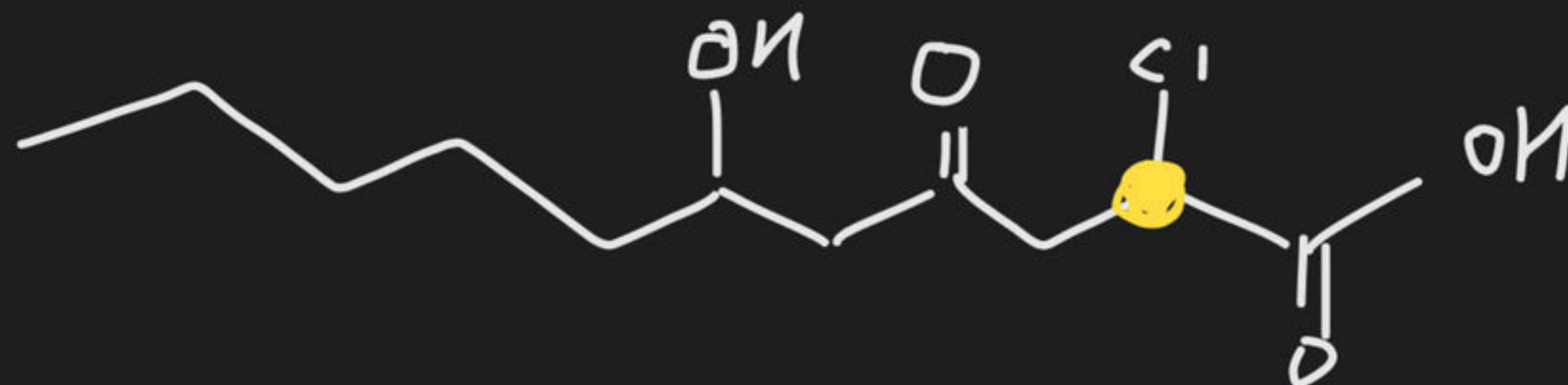


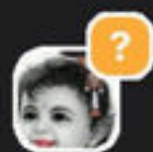
(55)



60

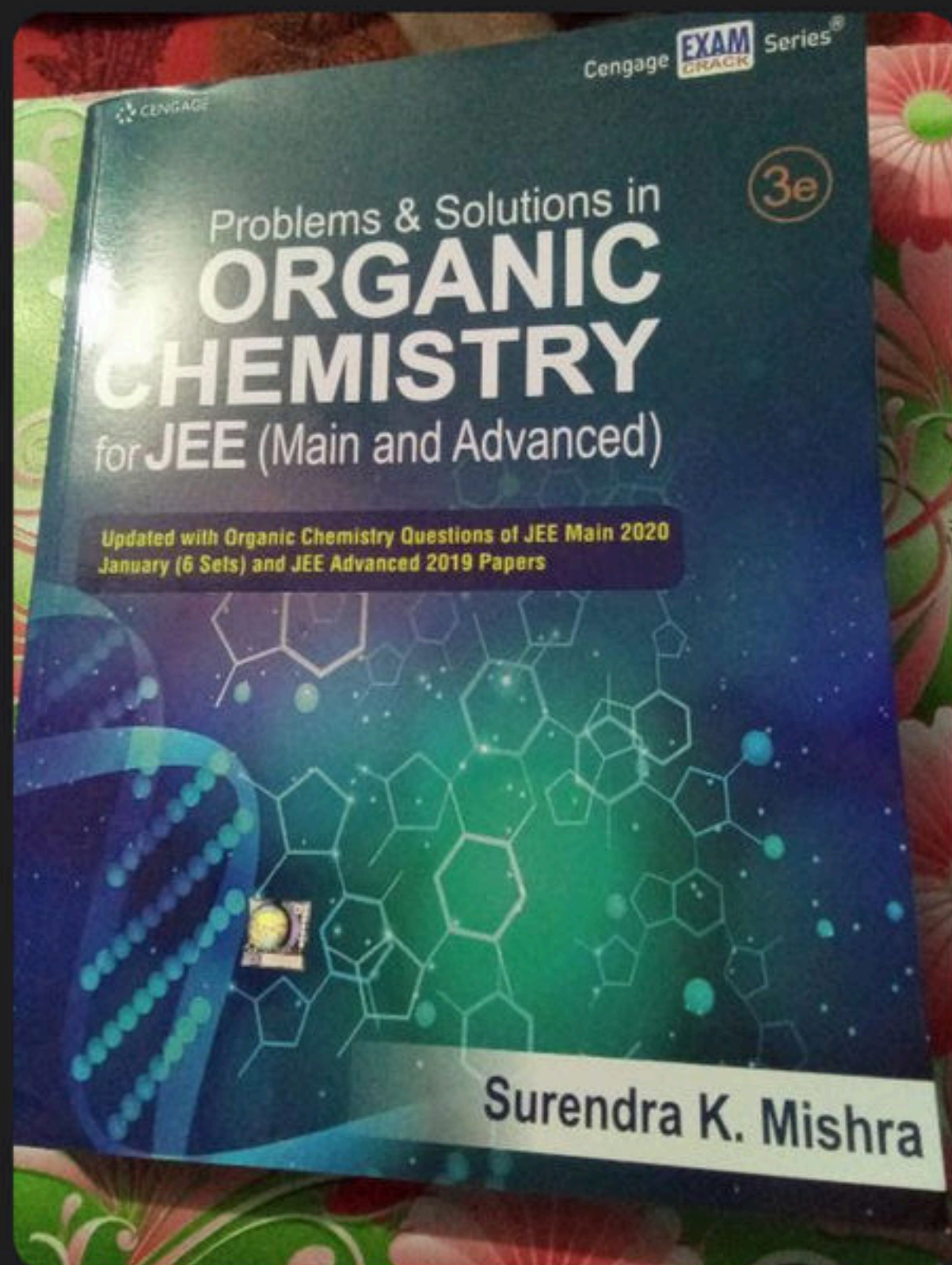
(58)





## Question

from Pratik Ranjan

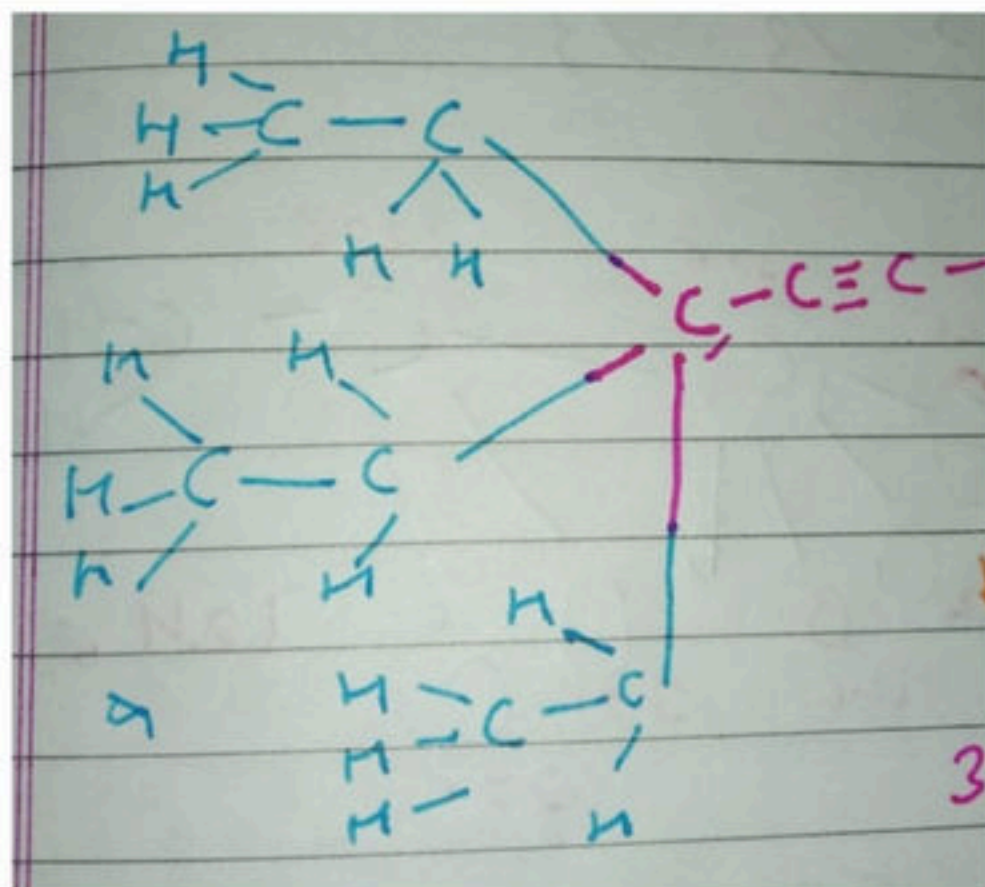






## Question

from chirag bhargava



XD















