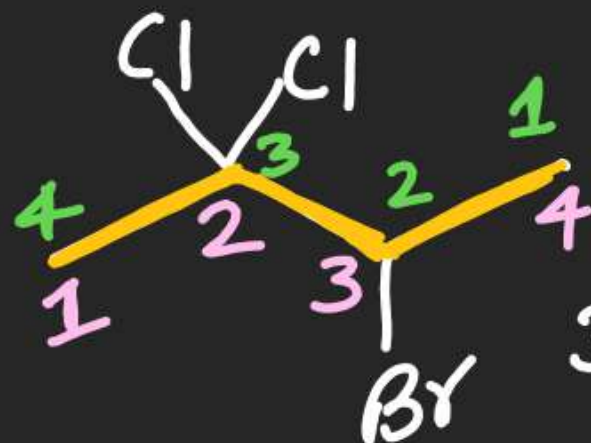


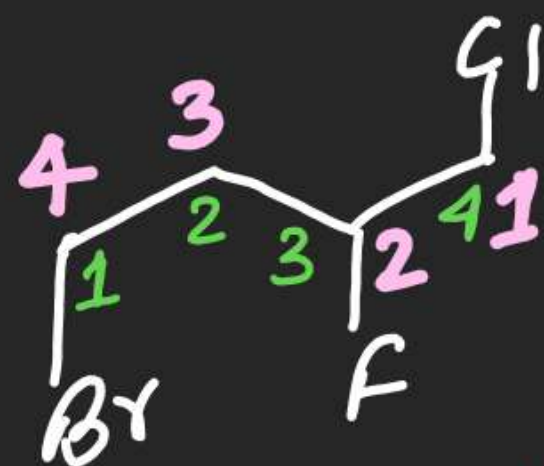
(2)



3-Bromo-2,2-Dichloro Butane

✓ 2 2 3 lowest
2 3 3 X

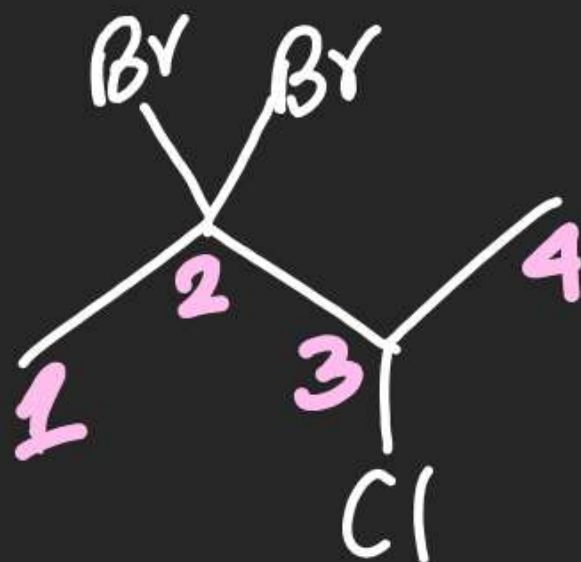
(5)



4-Bromo-1-chloro-2-fluoro Butane

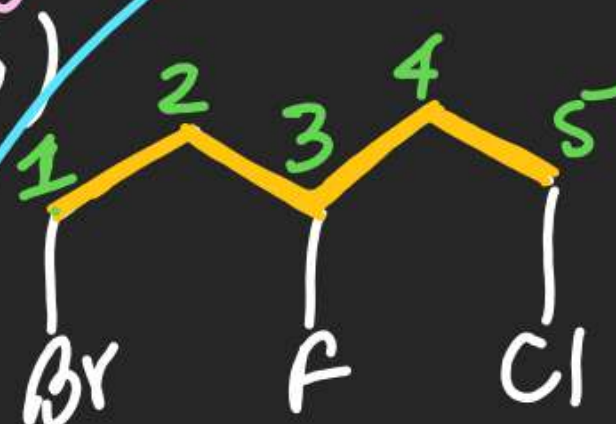
1 2 4 ✓
1 3 4 X

(3)



2,2-Dibromo-3-chloro Butane

(6)



1-Bromo-5-chloro-3-fluoro Pentane

R → L 1 3 3 ✓
L → R 2, 2, 4 X

(4)



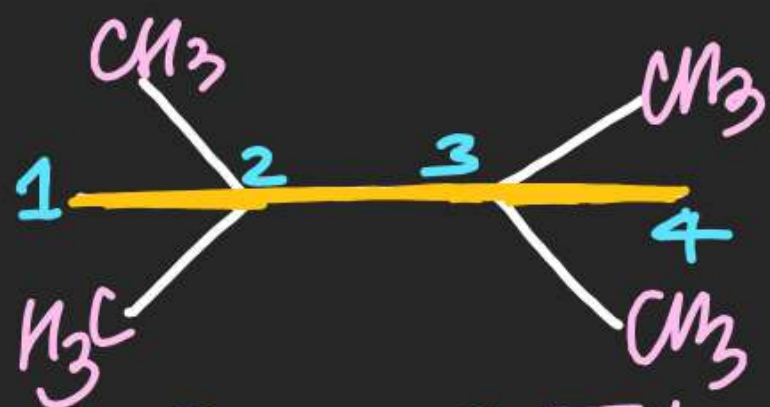
3,3-Dibromo-1-chloro Butane

(7)



2-methyl Propane

(8) ✓



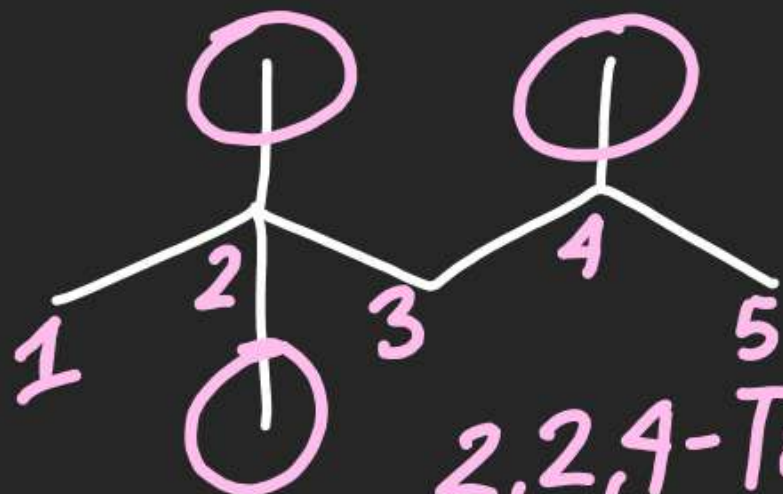
2,2,3,3-Tetramethyl Butane

(11)



Cyclohexane

(9)



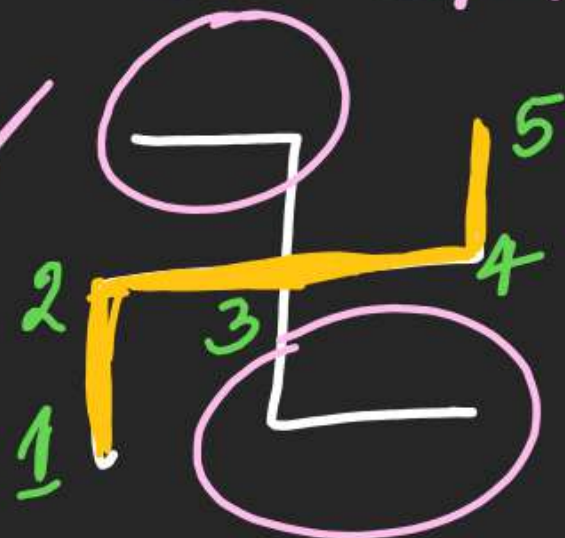
2,2,4-Tri methyl Pentane

(12) ✓



Cyclopentane

(10) ✓



3,3-Di Ethyl Pentane

(13)



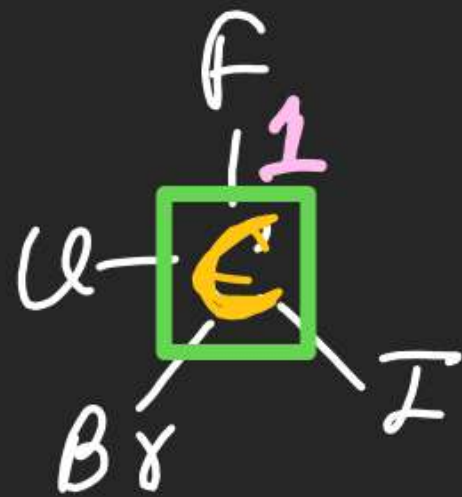
Cyclo Butane

(14)



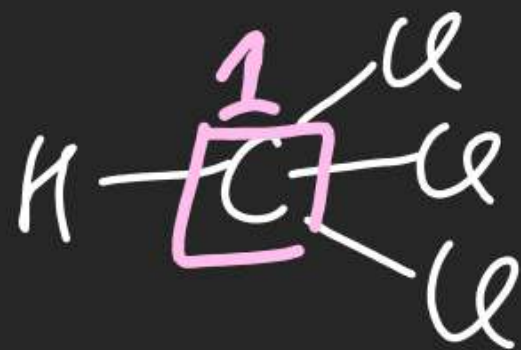
Cyclo propane

(16)



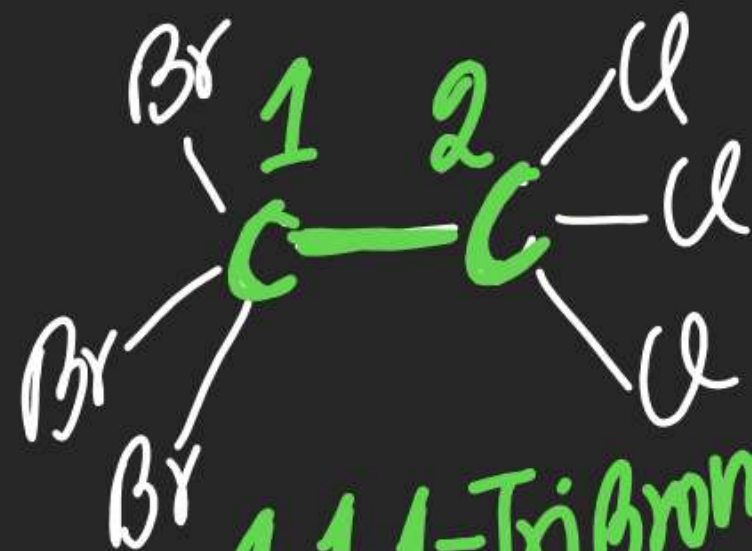
1-Bromo-1-chloro-1-fluoro-1-Iodomethane

(17)



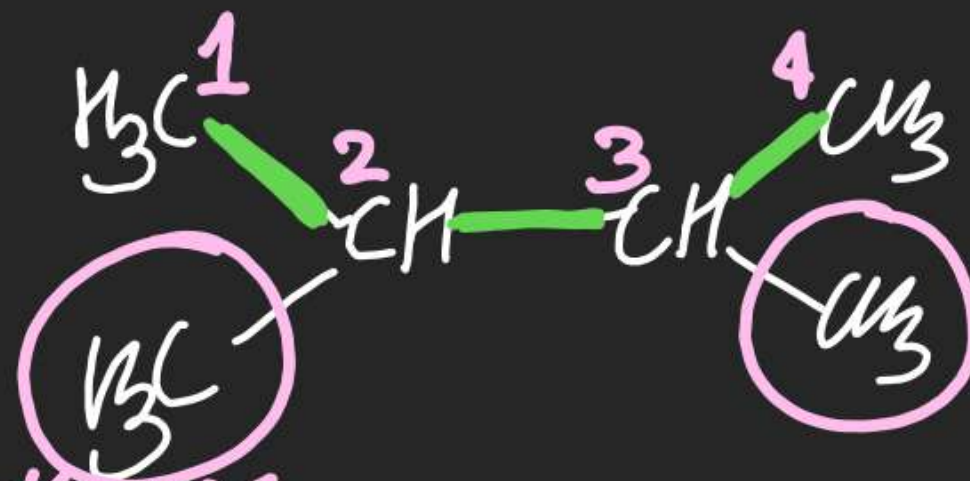
1,1,1-Tri
chloromethane

(18)



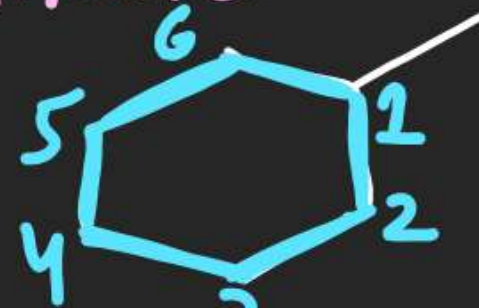
1,1,1-Tribromo-2,2,2-Trichloro
ethane

(19)



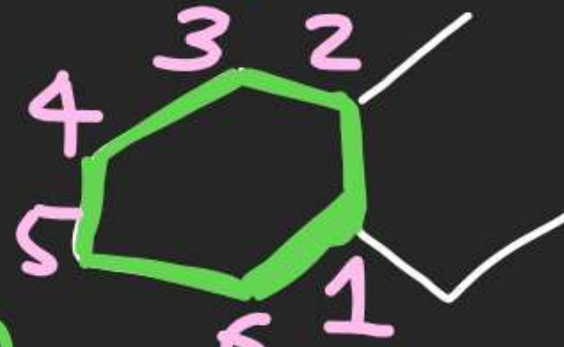
2,3-Dimethyl
Butane

(20)



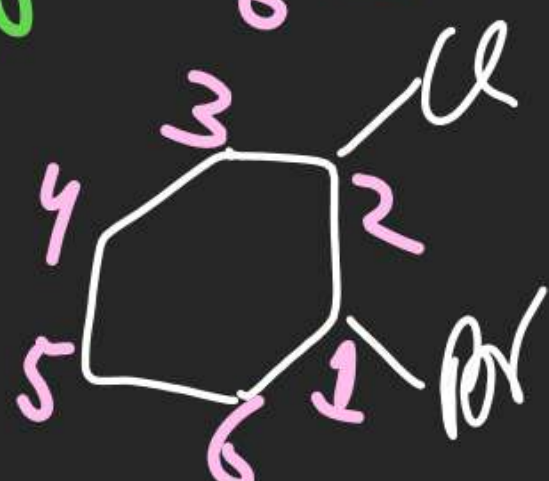
1-methyl cyclohexane

(21)



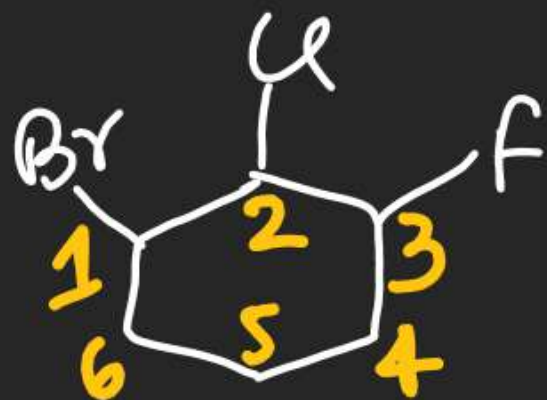
1-Ethyl-2-methyl
cyclohexane

(22)



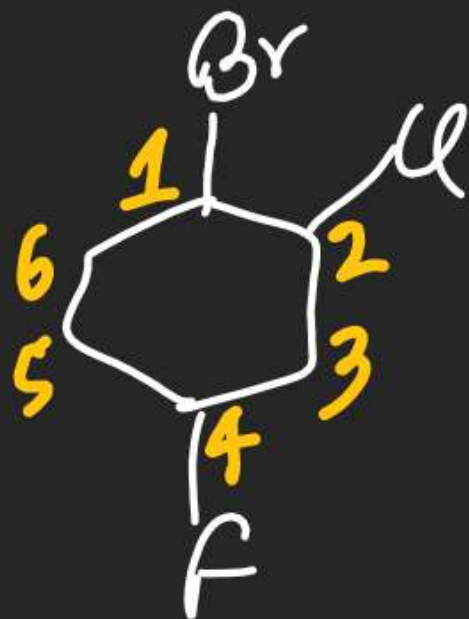
1-Bromo-2-chloro
cyclohexane

(23)



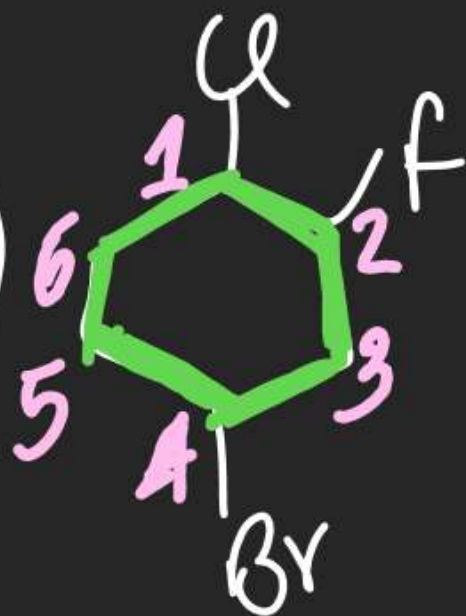
1-Bromo-2-chloro(26)
3-Fluoro Cyclohexane

(24)



1-Bromo-2-chloro
4-Fluoro Cyclohexane (27)

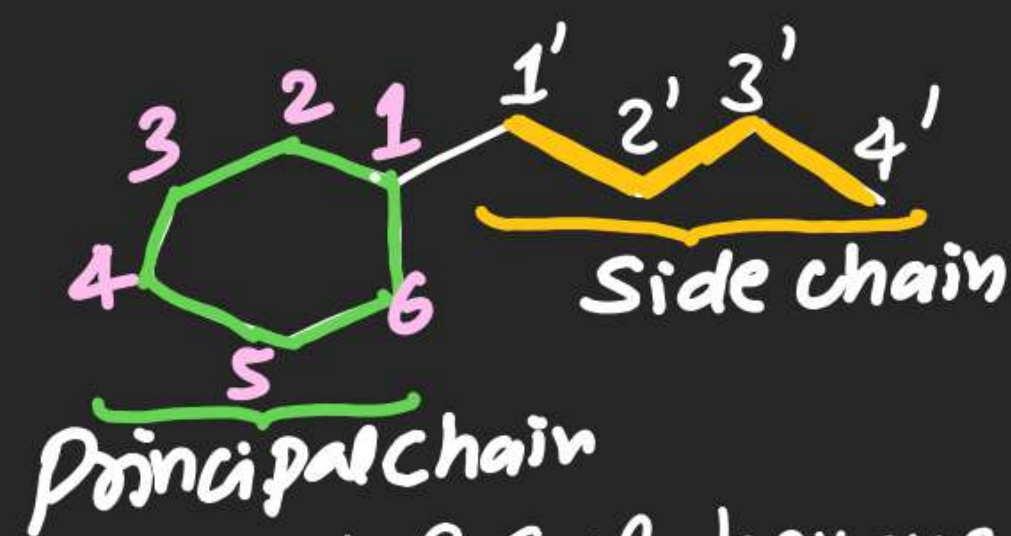
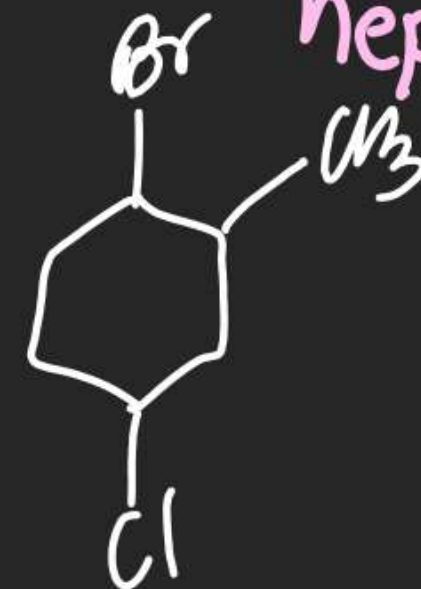
(25)



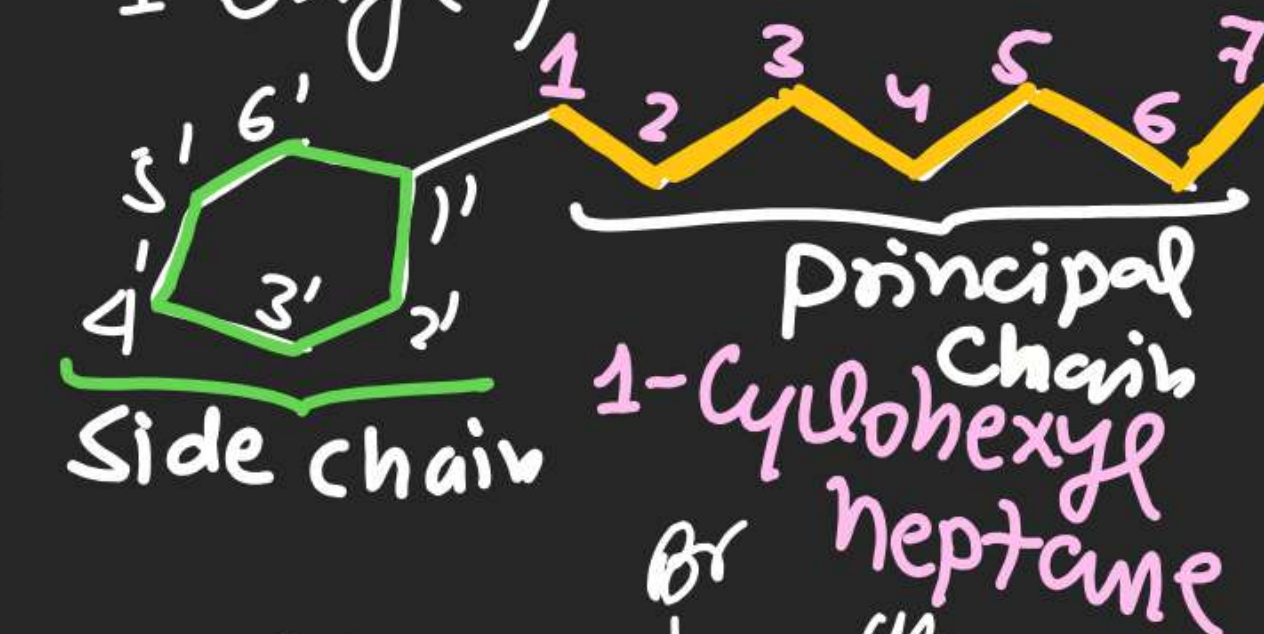
x-Bromo-y-chloro
-z-Fluoro Cyclohexane

$$\begin{aligned} x &= 4 \\ y &= 1 \\ z &= 2 \end{aligned}$$

(28)
1-Bromo
4-chloro
2-methyl
Cyclohexane

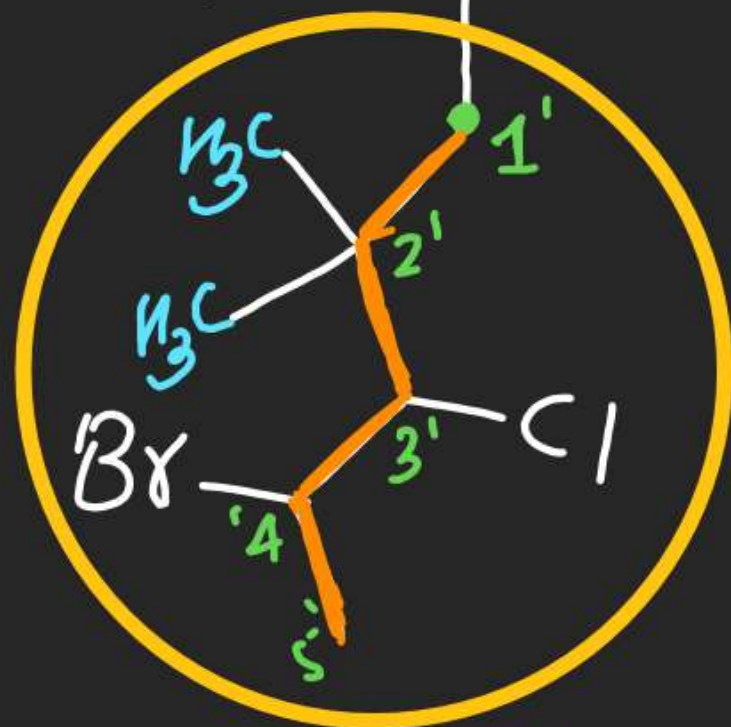


1-Butyl Cyclohexane



1-Cyclohexyl
heptane

(29)



Side chain

7-(4'-Bromo-3'-chloro-2',2'-Dimethyl Pentyl)

Tridecane

Naming of side chains

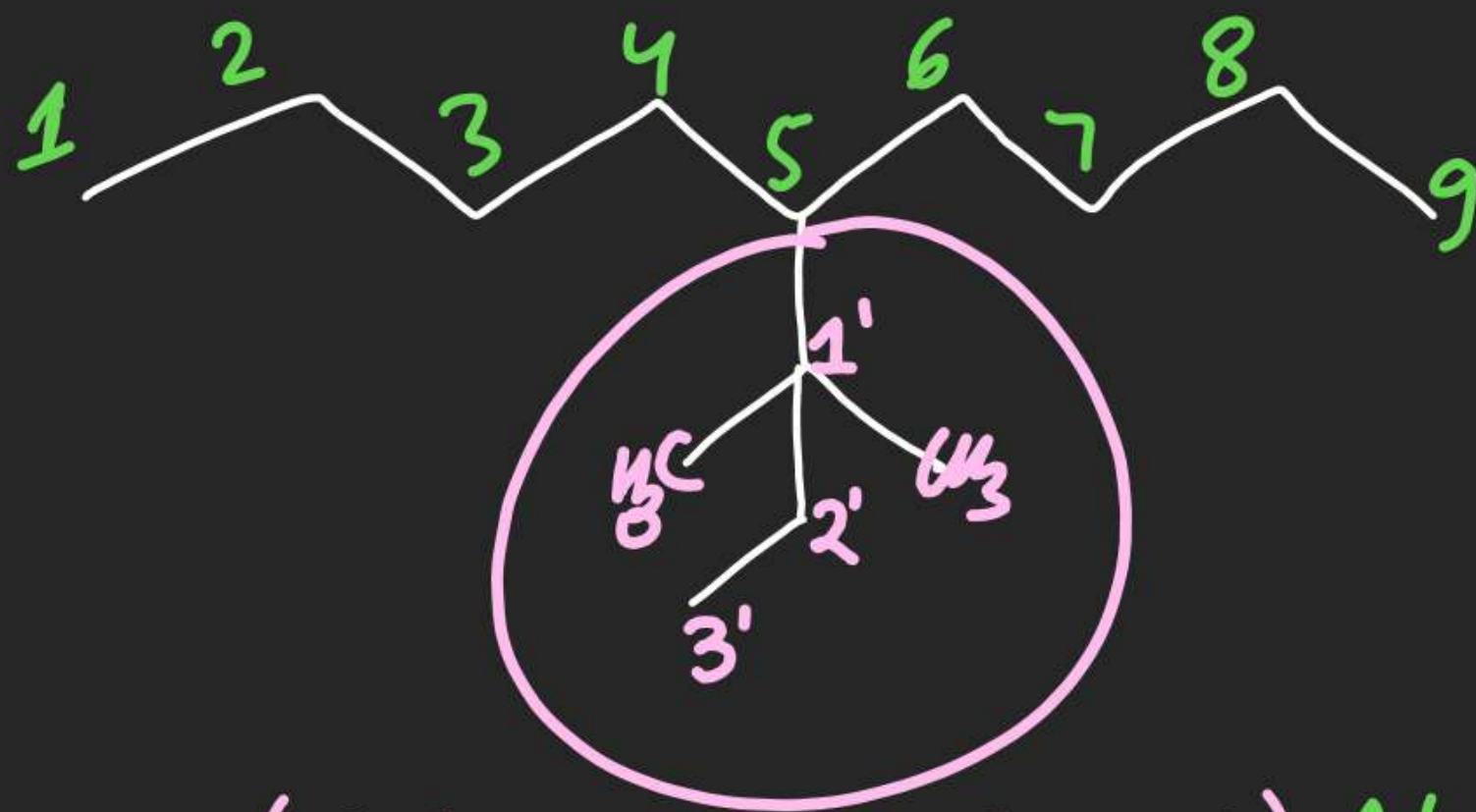
Rule-1

always assign No. 1 during No. to that Carbon which is directly connected principal chain

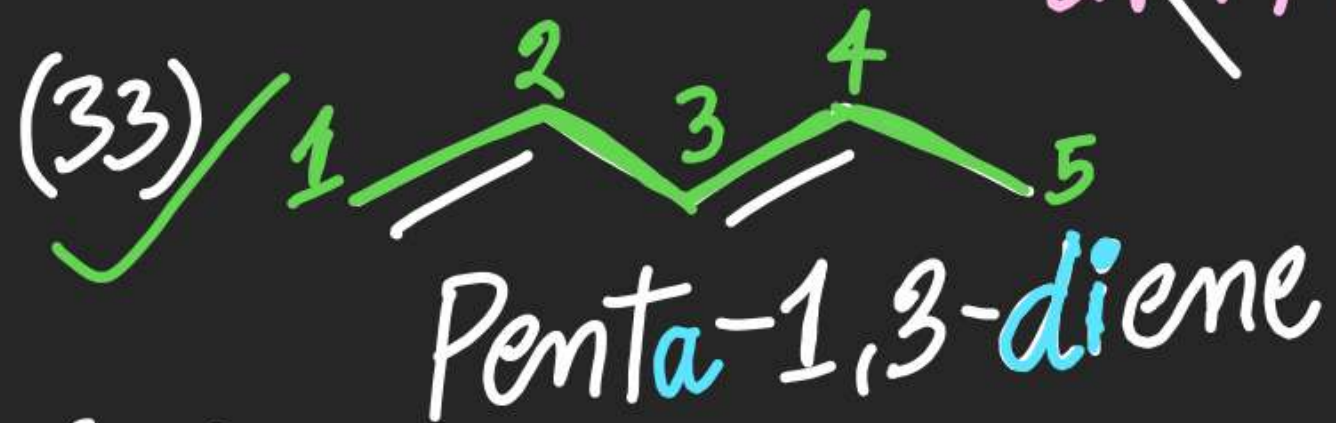
Rule-2:

1° suffix \Rightarrow yl

(30)



5-(1,1-dimethylpropyl) Nonane



~~$2^{\circ}P + 1^{\circ}P + WR + 1^{\circ}S + 2^{\circ}S$~~

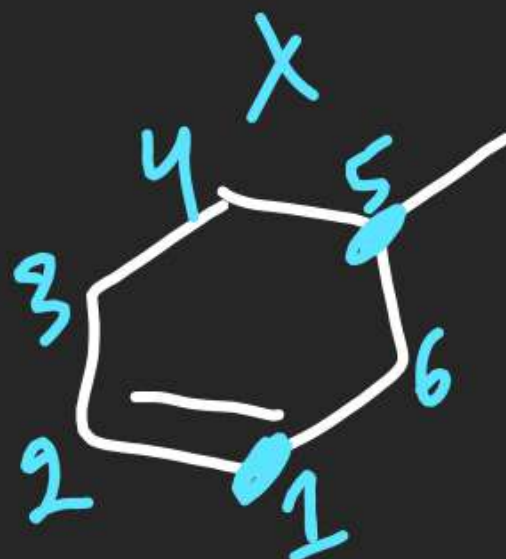
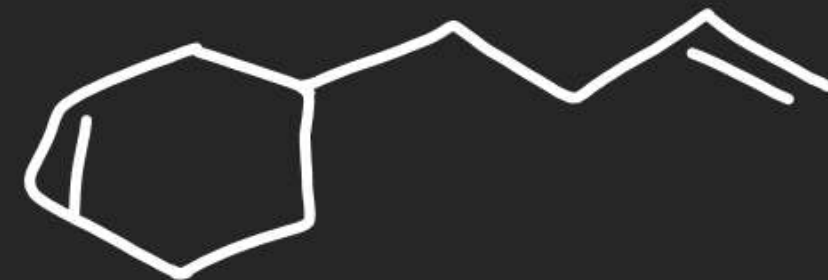




(42)



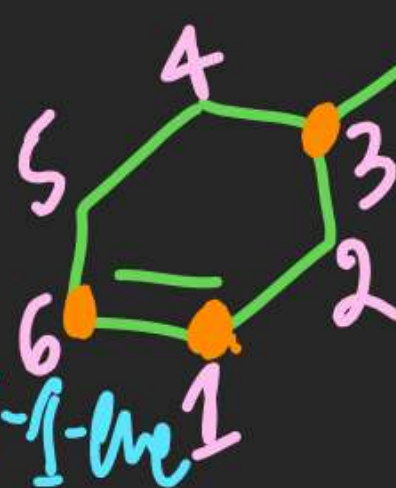
(43)



(44)



4-methyl cyclohex-1-ene



नहीं ये हो
नहीं
सही

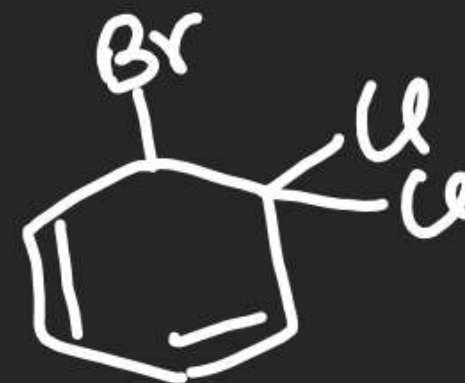
(45)



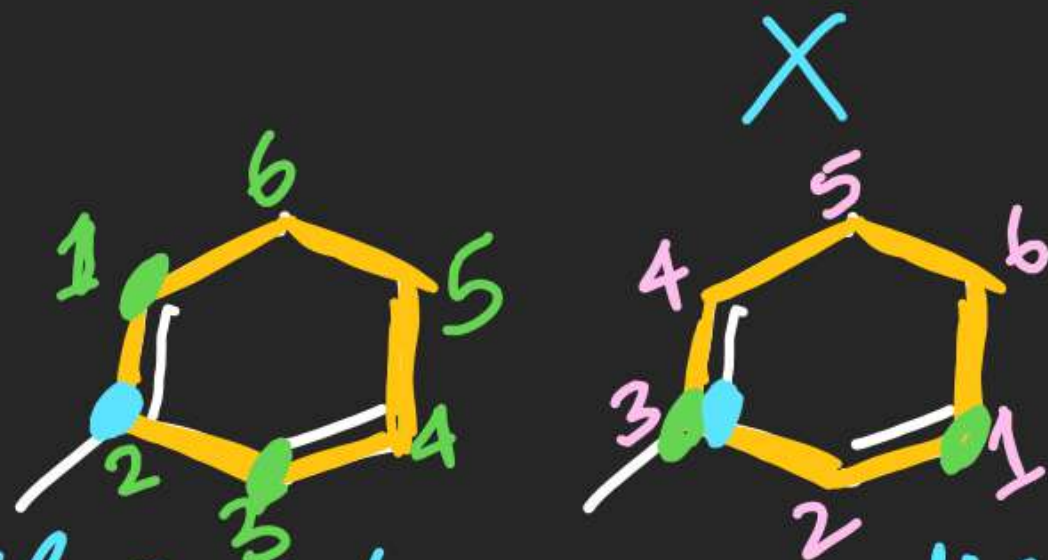
(46)



(49)

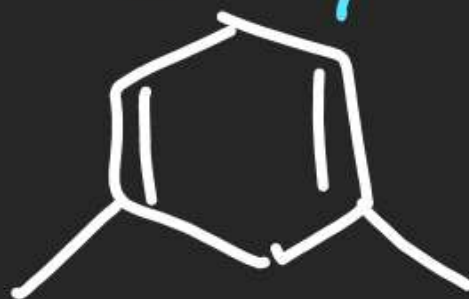


(47)

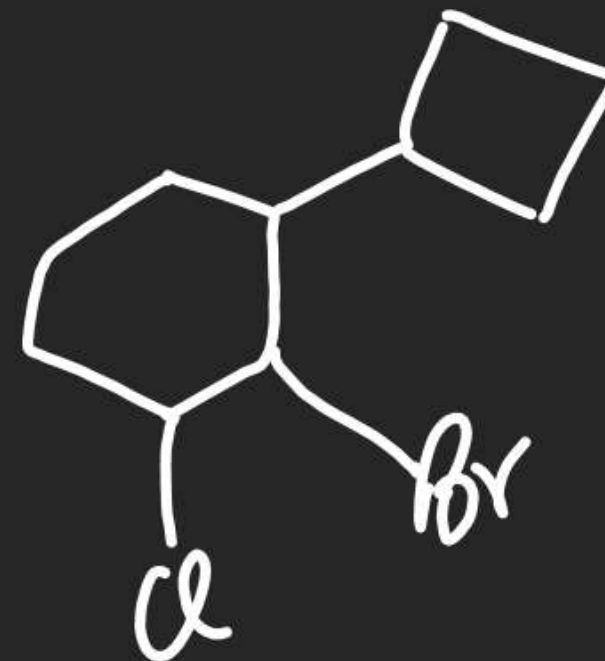


2-methyl cyclohexa-1,3-diene

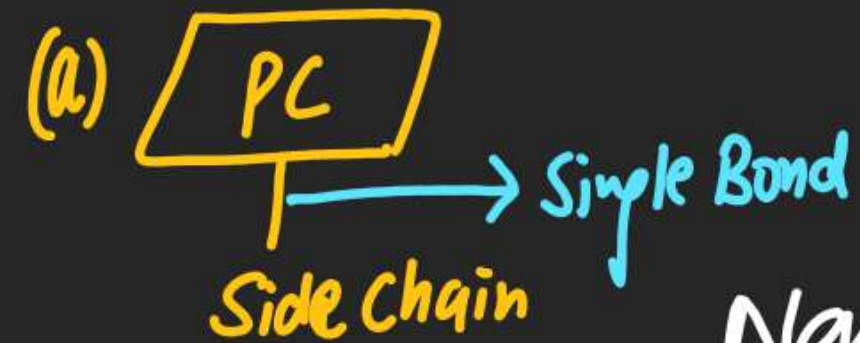
(48)



(50)

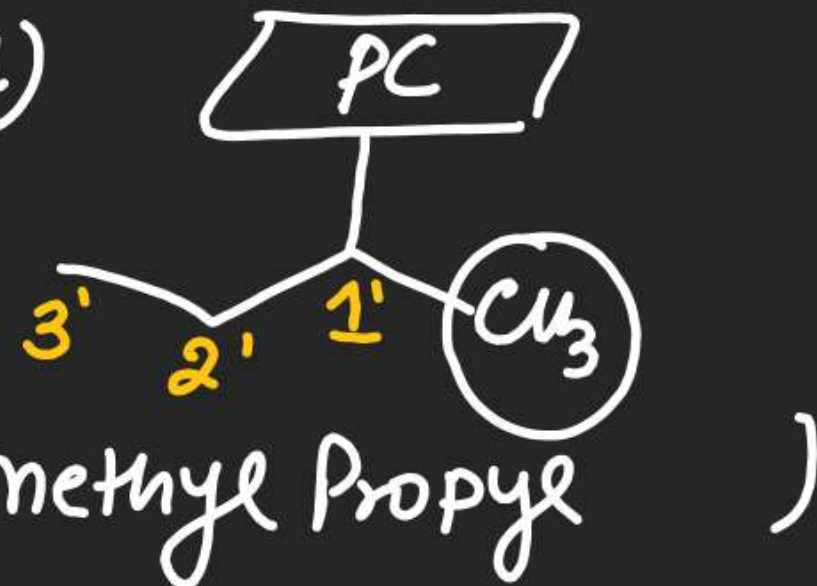


(#) IUPAC naming of Complex side chains

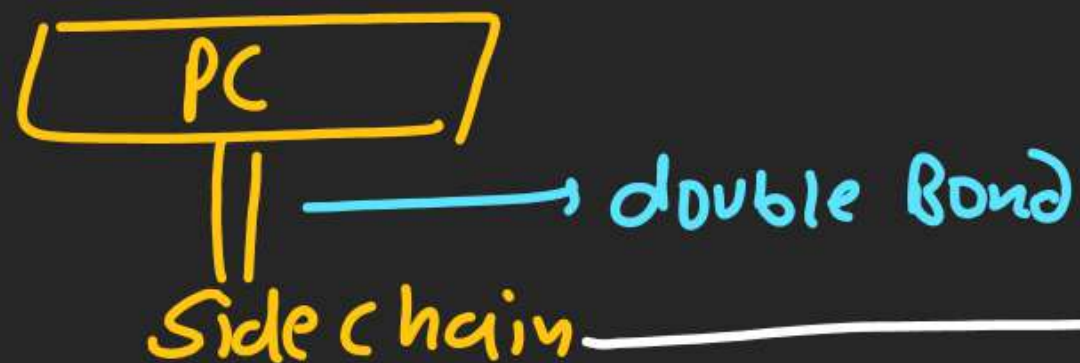


Name of side chain
would end up with "yl"

(51)

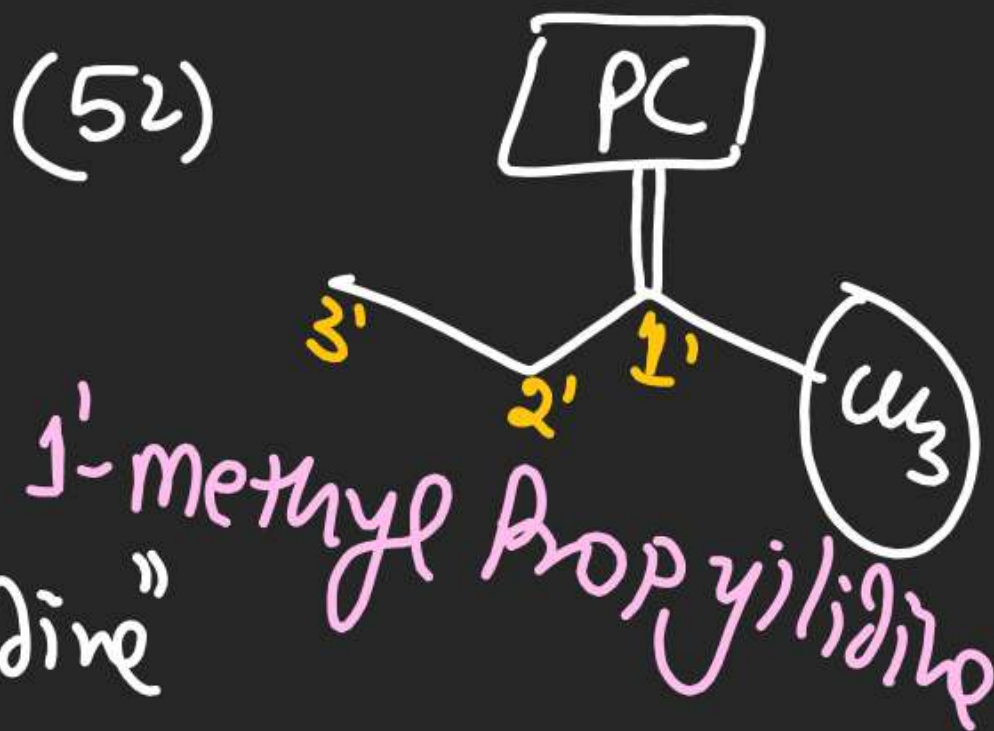


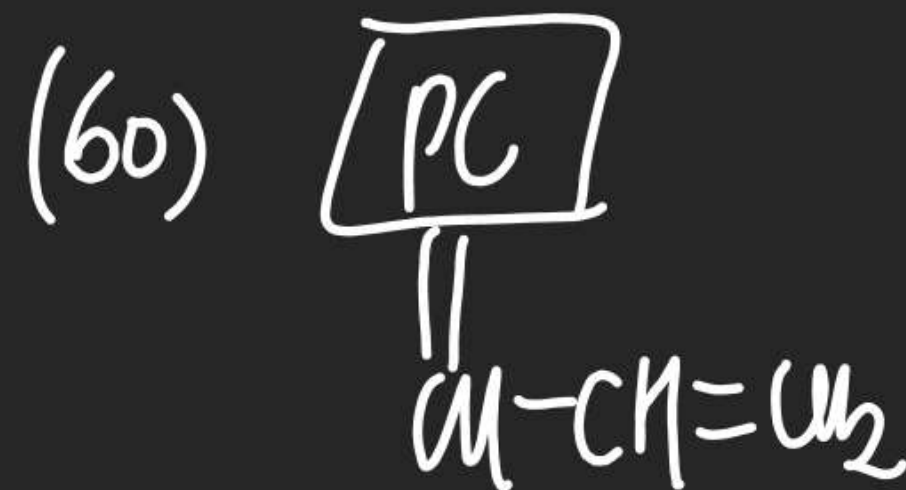
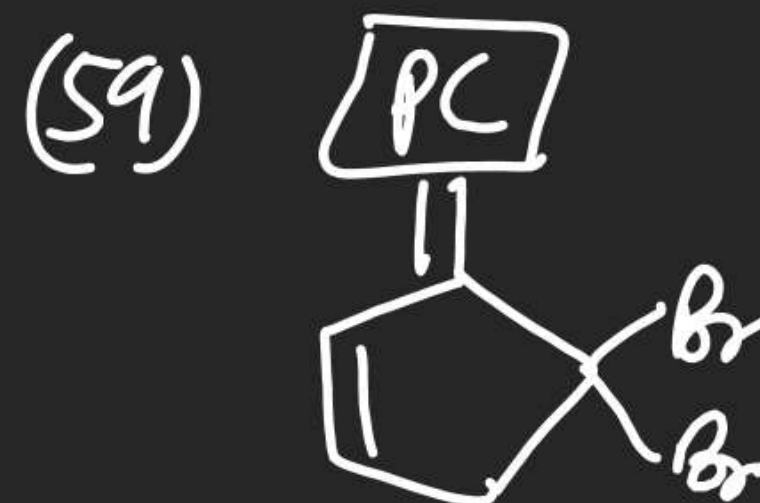
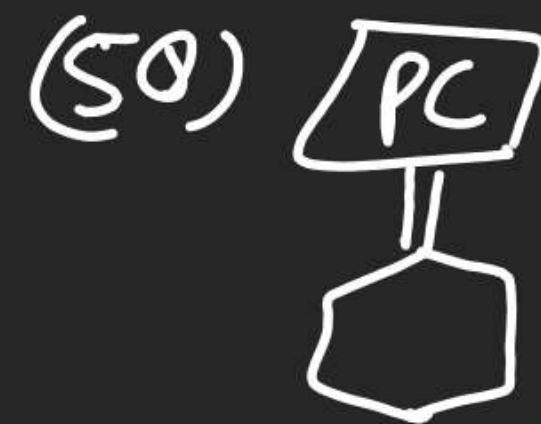
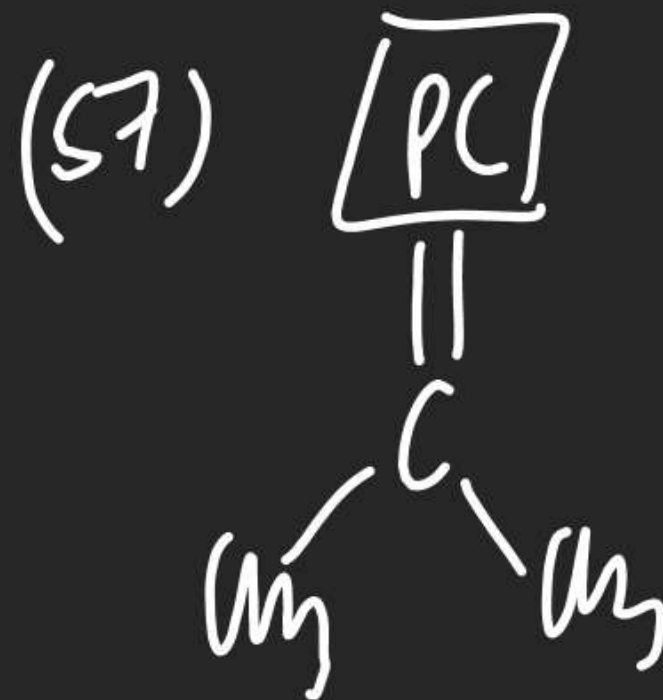
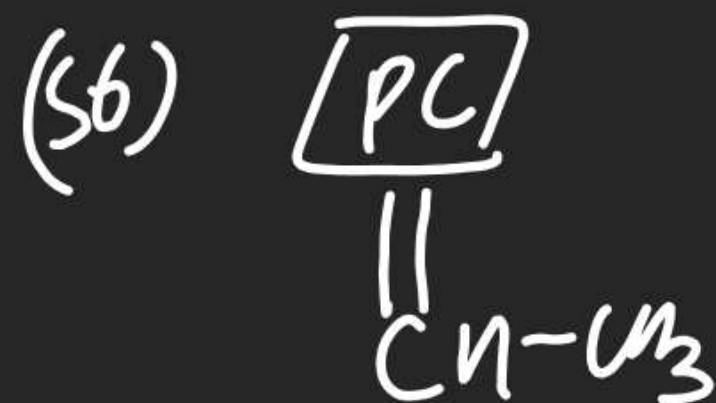
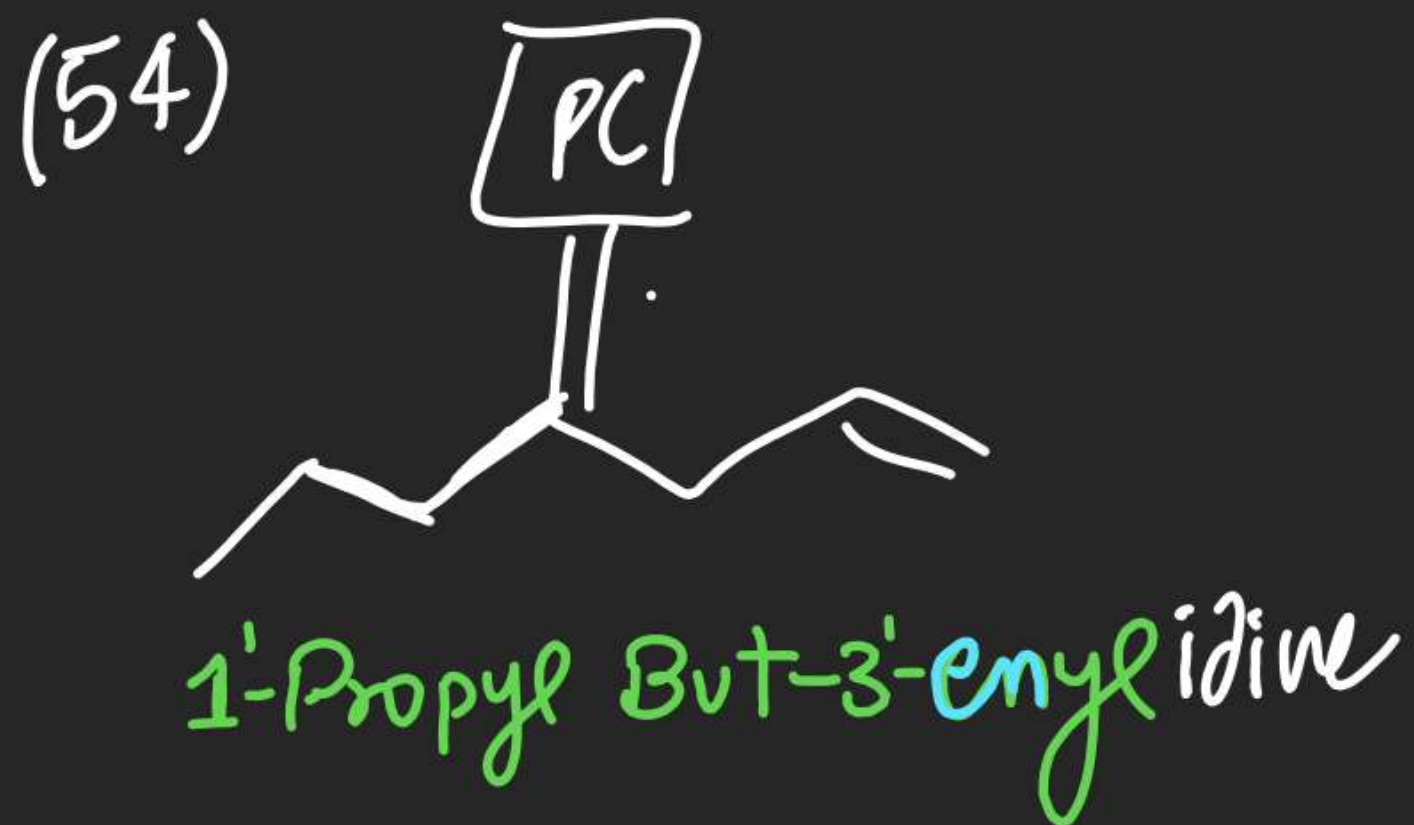
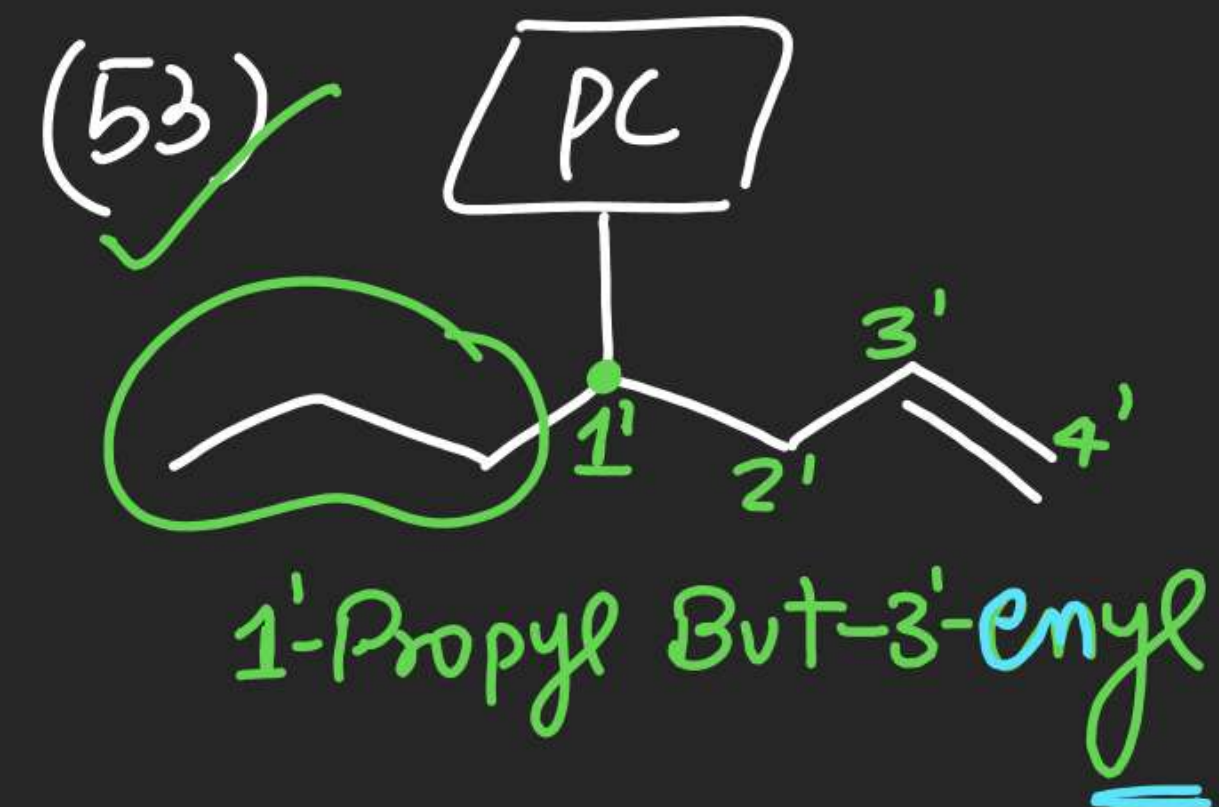
(b)

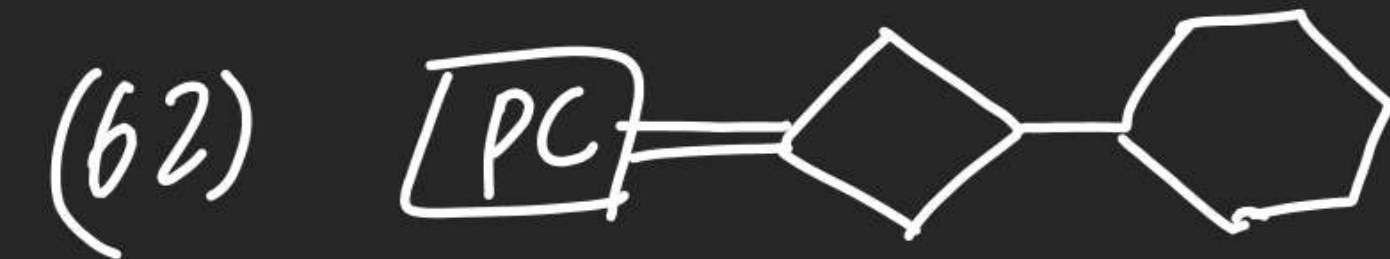
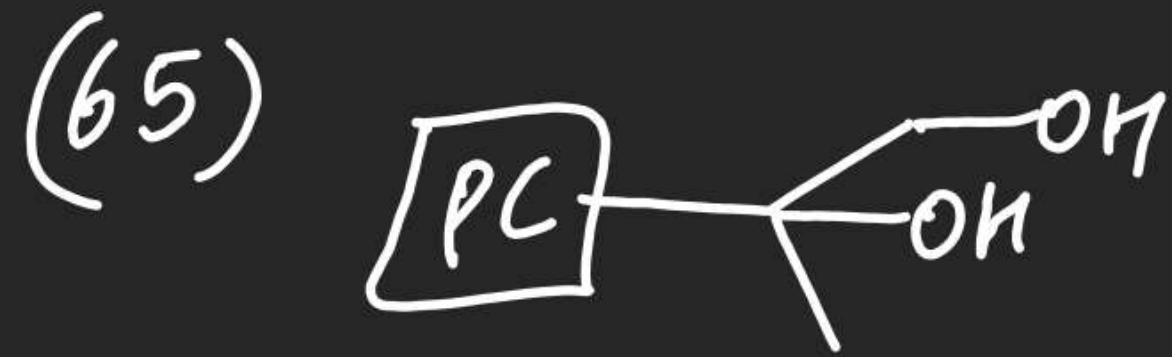
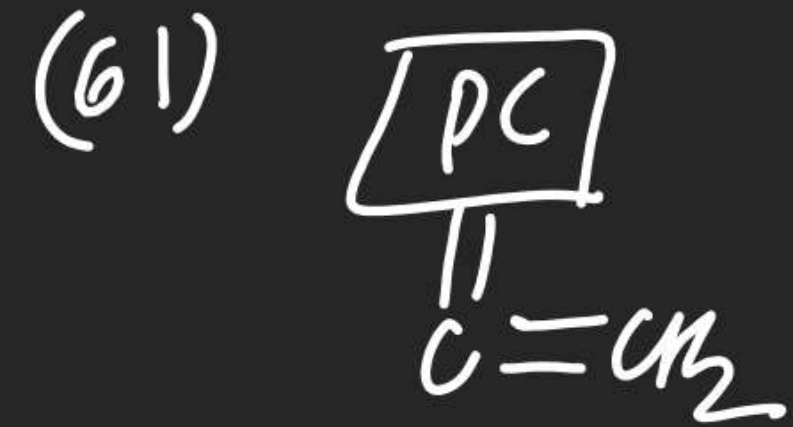


"ylene" / "ylidene"

(52)







maths \Rightarrow
physics \Rightarrow

