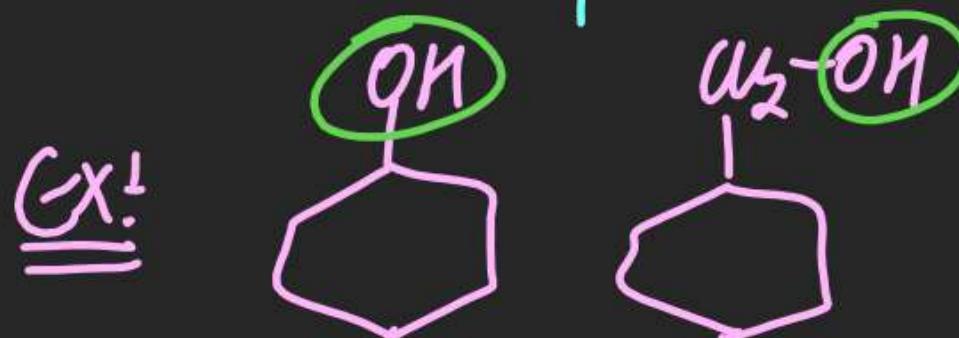
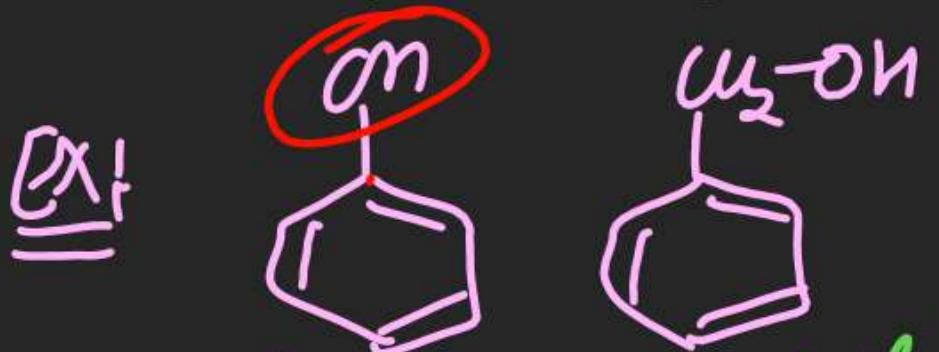


(iii) Each member of HS contains diff physical properties

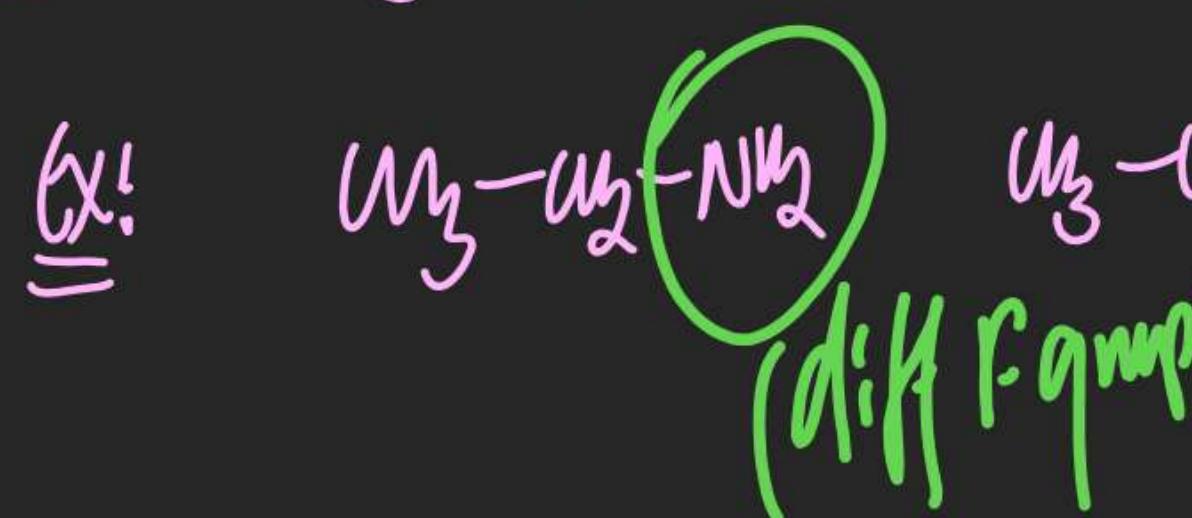
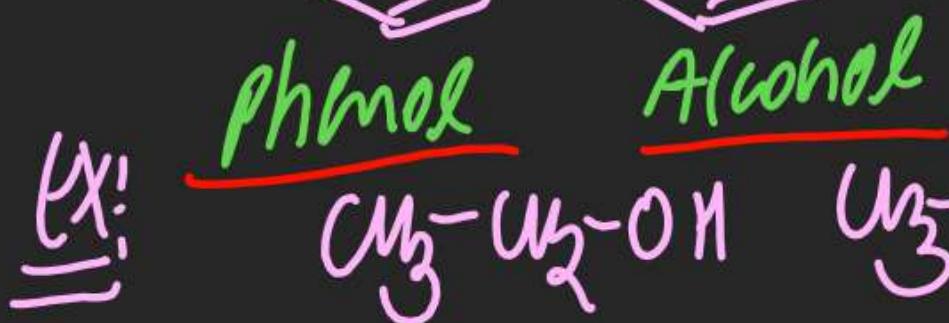
(iv) Homologous can be represented by same general formula



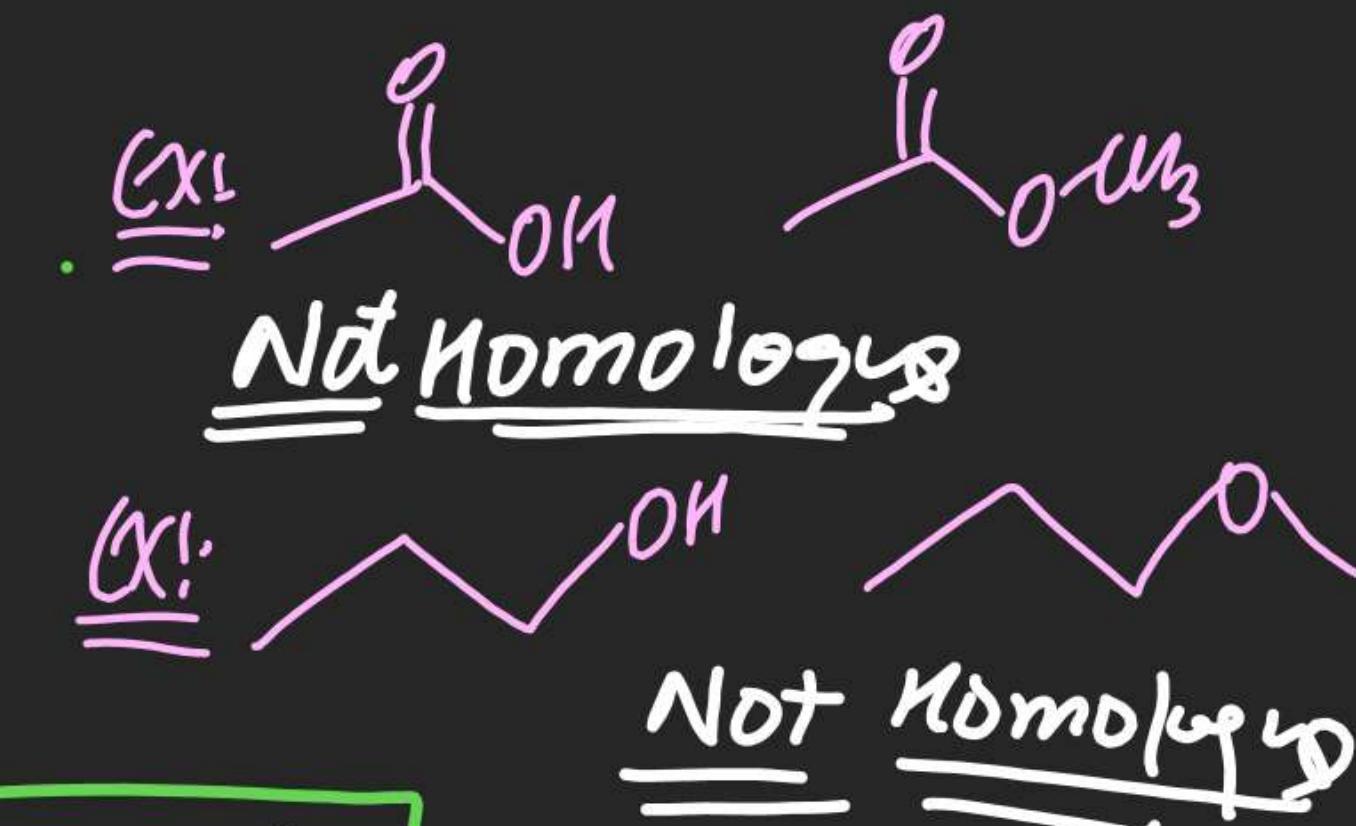
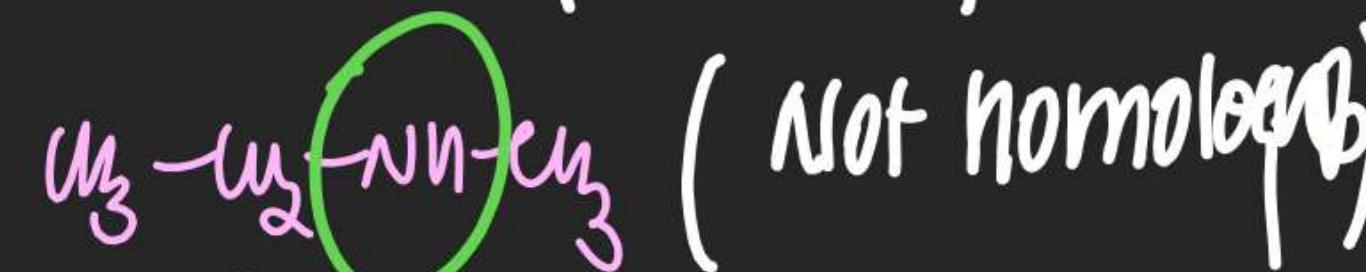
Homologous

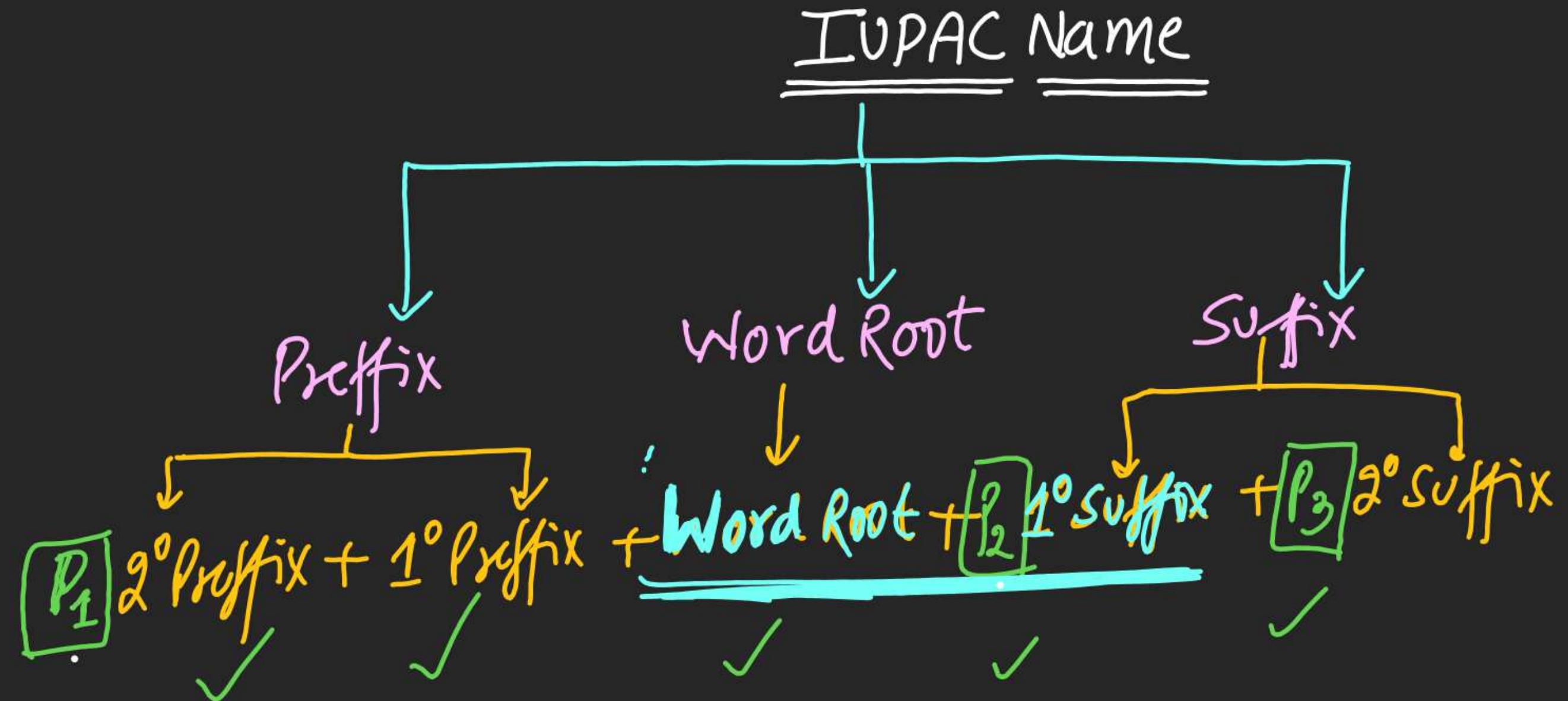


Not Homologous



(Homologous)





Preffix: It is used at starting of IUPAC Name.

2° Preffix: It is used for naming of side chains / substituents

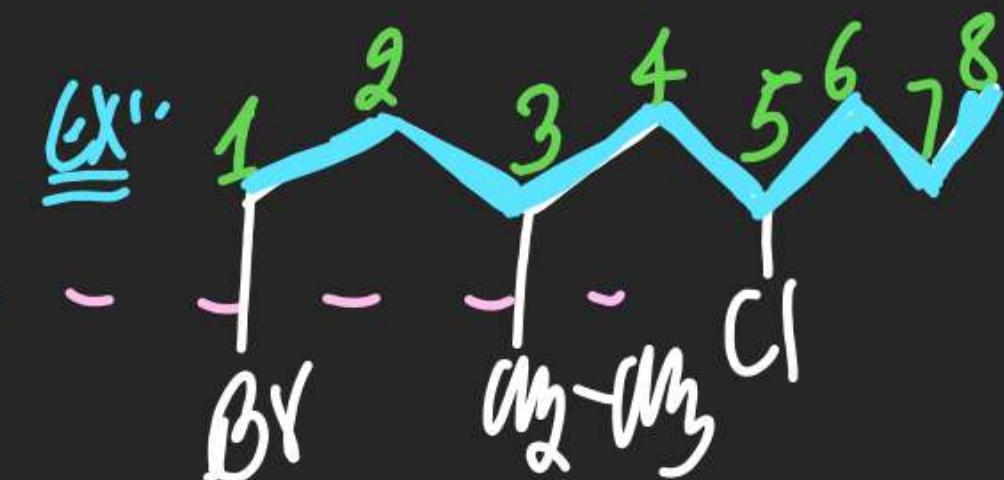
-Cl	chloro
-Br	Bromo
-I	Iodo
-F	Fluoro

-OH	Hydroxy	-OR	Alkoxy
-NO ₂	Nitro	-NO	Nitroso
-CH ₃	methyl (Me)	-ONO	Nitrito
-CH ₂ -CH ₃	Ethyl (Et)		

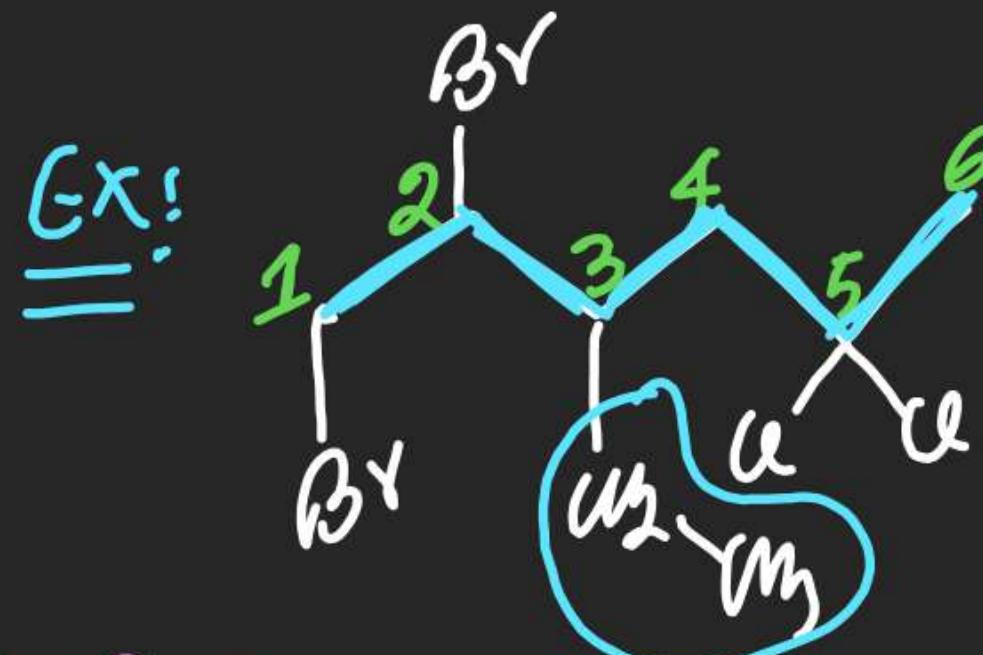
Note (i) 2° Preffix is always written in Alphabatical order

(ii) —————— with position

for ex 1-Bromo-5-chloro-3-Ethyl -



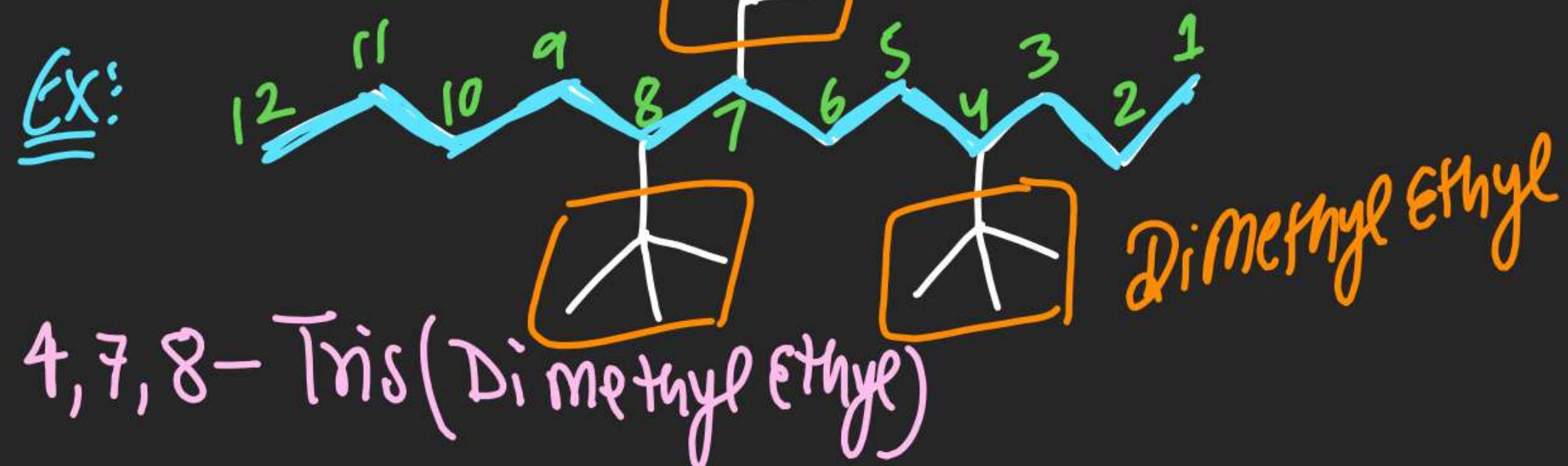
(iii) If side chain/substituents are more than one
then use twice → di
thrice → Tri
→ Tetra
→ Penta



1,2-Dibromo-5,5-Dichloro-3-Ethyl

(iv) If Name of Side chain already includes di, Tri, Tetra ...etc then on Repetition of such side chains use following

twice $\xrightarrow{\hspace{1cm}}$ Bis
 thrice $\xrightarrow{\hspace{1cm}}$ Tri's
 $\xrightarrow{\hspace{1cm}}$ Tetra Kis
 $\xrightarrow{\hspace{1cm}}$ Penta Kis



(#) **1° Prefix**

It is used for nature of Principal chain

Principal chain

Acyclic

Cyclic

Two Rings having BiCyclic
at least 2 atom common

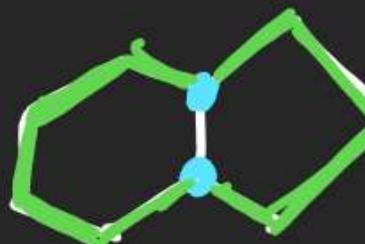
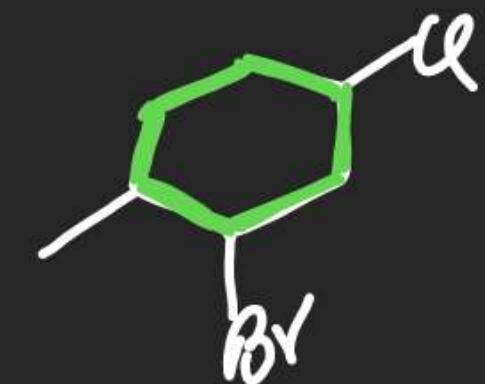
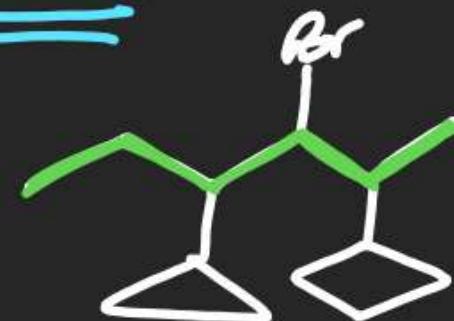
Two Rings having Spiro
Exactly 1 atom common.

1° Prefix

Cyclo

BiCyclo

Spiro



(#) Word Root: It is used for Total No. of Carbon atom in Principal chain

<u>No. of Carbon atom</u>	<u>Word Root</u>
1	Meth
2	Eth
3	Prop
4	But
5	Pent
6	Hex
7	Hept
8	Oct
9	Non
10	Dec

11	Undec
12	Dodec
13	Tridec
14	
15	
:	
20	
30	
40	
50	
60	
70	
80	
90	
100	

Note: (i) If Principal chain is  then we use Benzene in place of [WR + 1° suffix]

(ii) An additional alphabet "a" is added when 1° suffix includes

di, tri, tetra - - - - -

Word Root

meth	Metha
Eth	Etha
Prop	Propa
But	Buta
Pent	Penta
Hex	hexa

:

:

(#) **1° Suffix**

It is used for nature of Carbon-Carbon bond in Principal chain.

Nature of C-C
Bond

1° Suffix

All Single

ane

multiple {
Bond 1 double
 1 Triple

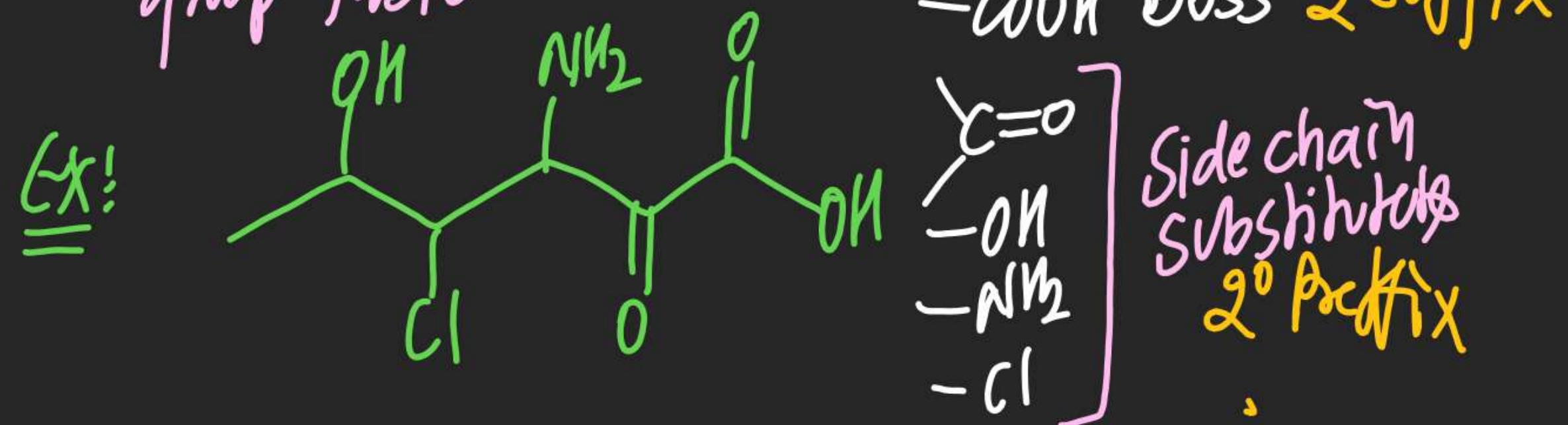
ene

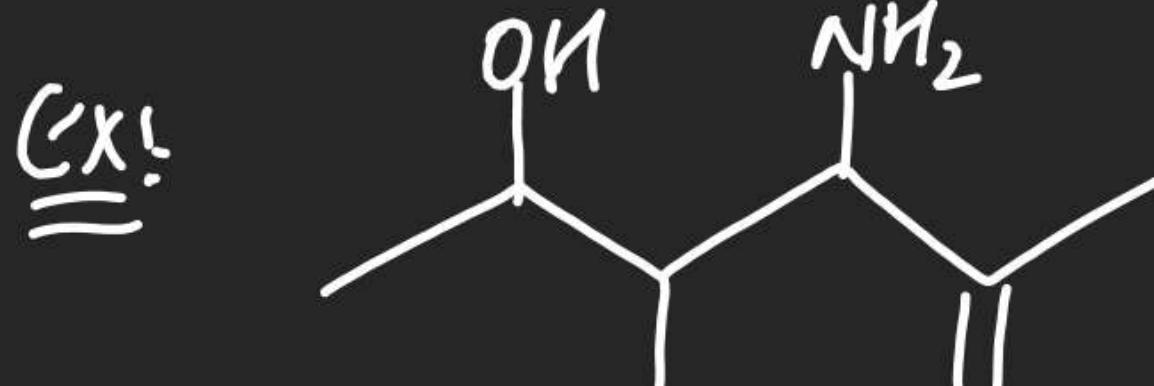
yne

Note (i) If multiple Bond appears
twice then use di
tri
tetra

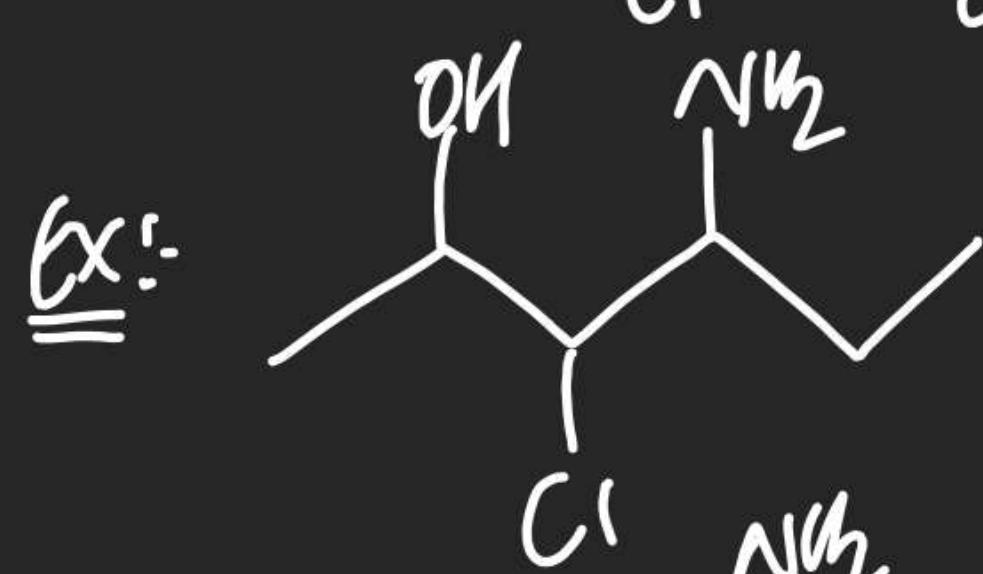
- (i) 1^{o} suffix is always written in alphabetical order
 (ii) _____ with position
 (iii) 1^{o} suffix omitted last alphabet "e" if 2^{o} suffix starts with vowel.

(#) **2^{o} Suffix** It is used for main functional group (Boss) in Principal chain by help of functional group table

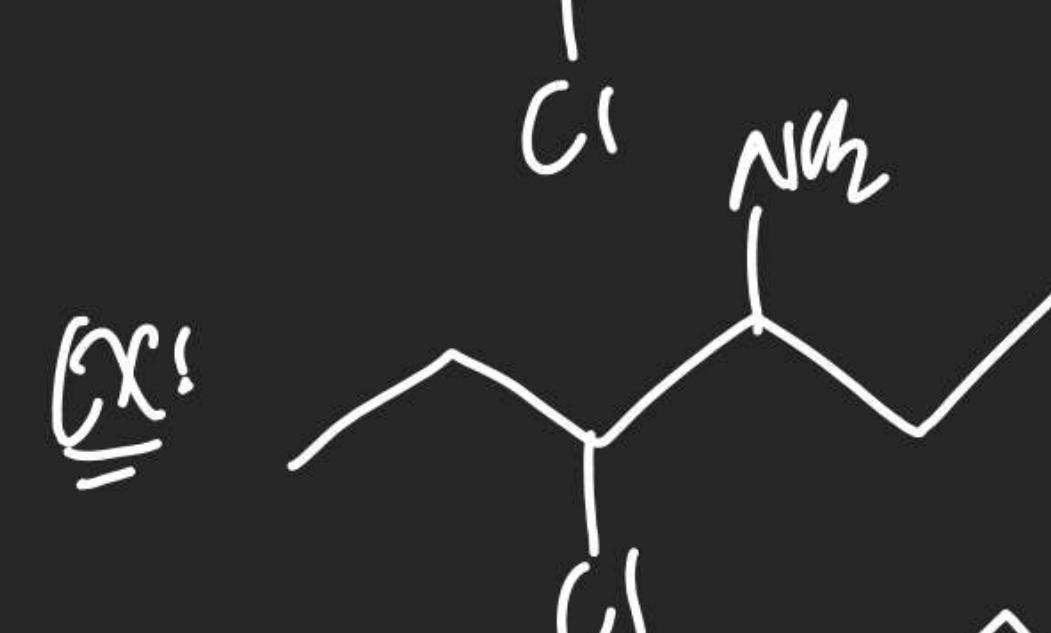




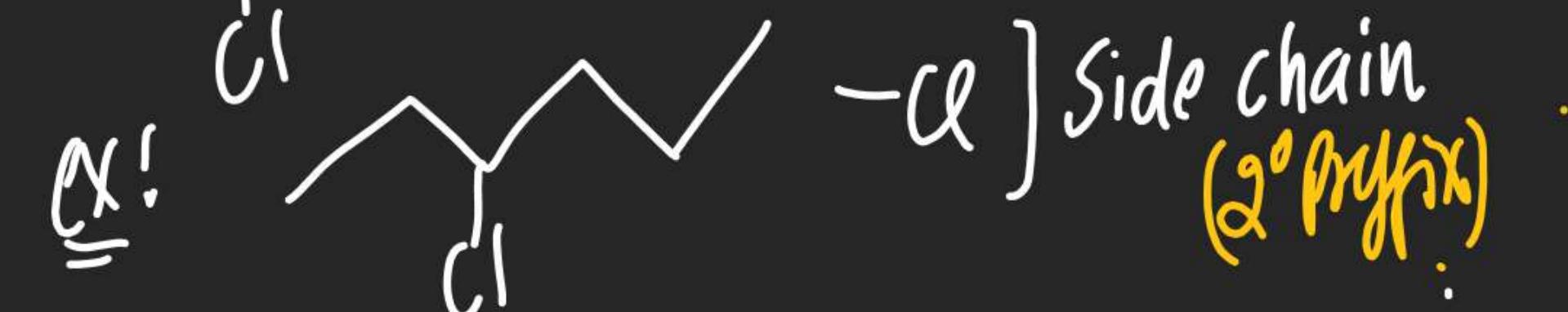
$\text{C}=\text{O}$ Boss (2° suffix)
 $-\text{OH}$
 $-\text{NH}_2$
 $-\alpha$] Side chain or Substituent.
 $(2^\circ$ Prefix)



$-\text{OH}$ Boss (2° suffix)
 $-\text{NH}_2$] Side chain (2° prefix)
 $-\alpha$



$-\text{NH}_2$ Boss (2° suffix)
 $-\alpha$] Side chain (2° prefix)



$-\alpha$] Side chain
 $(2^\circ$ prefix)

(#) Selection of Principal chain :-

→ Select Principal chain so that it contains following in higher

No.

B > M > L > S

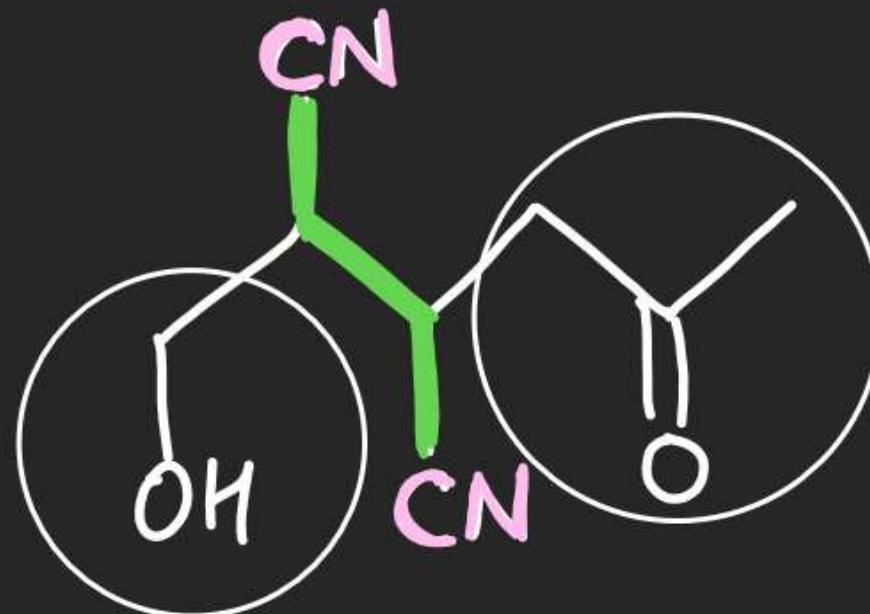
BOSS

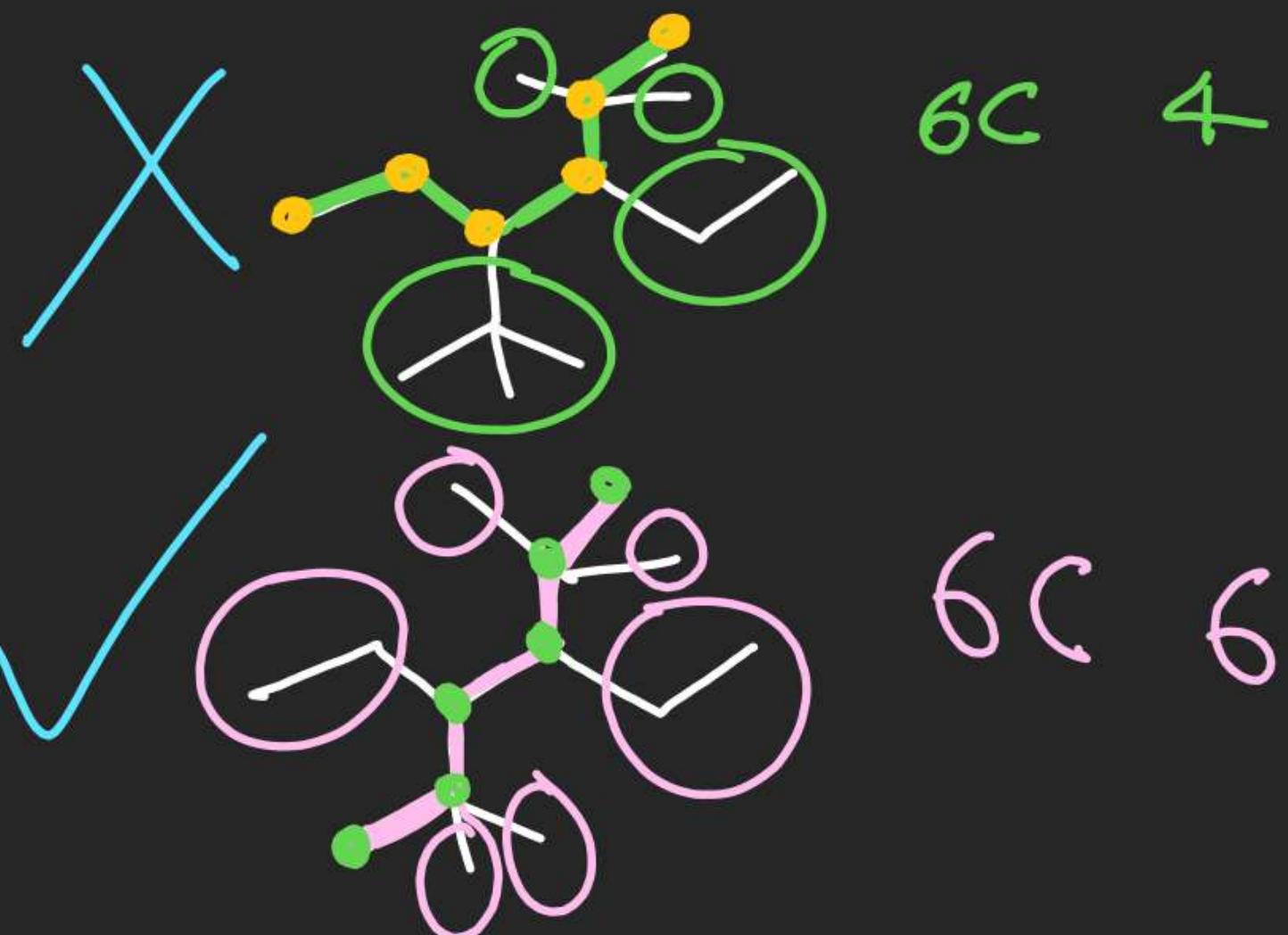
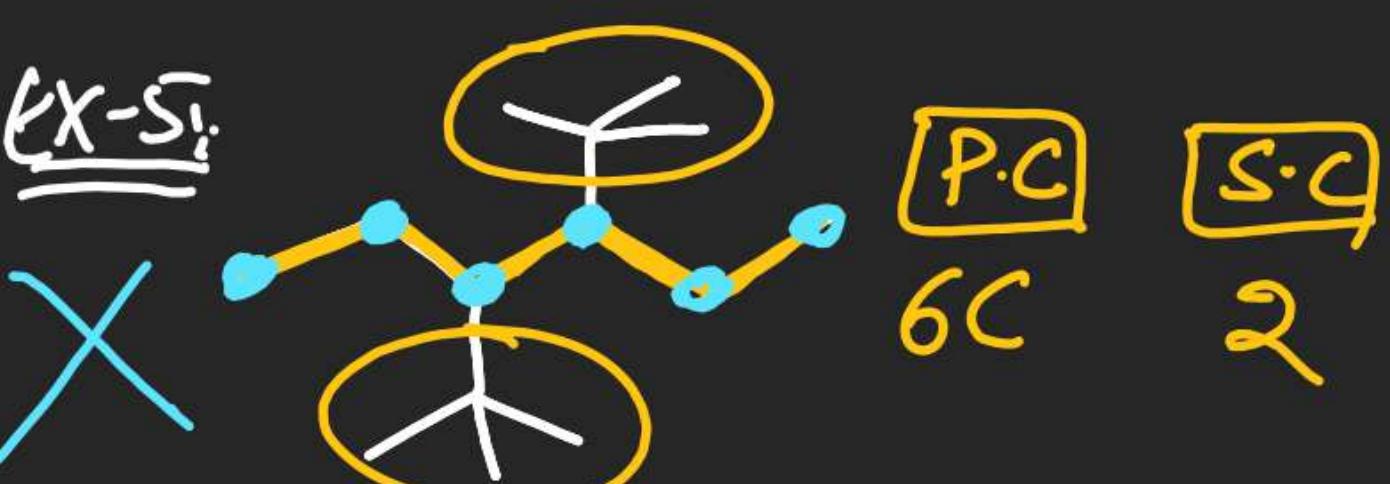
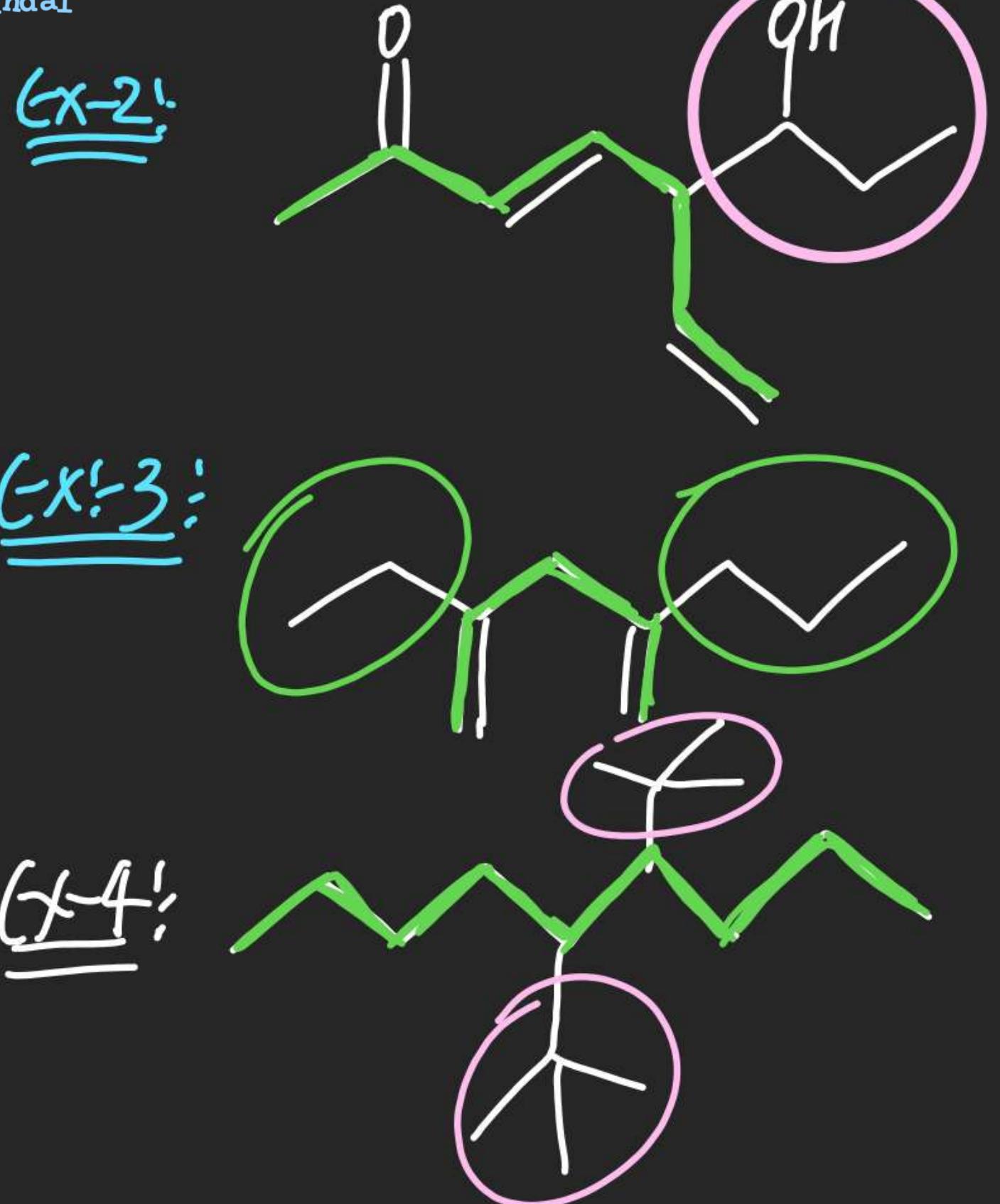
multiple
Bond

length
of Carbon
chain

Side
Chains

Ex-1





(#) Numbering of Principal chain:-