

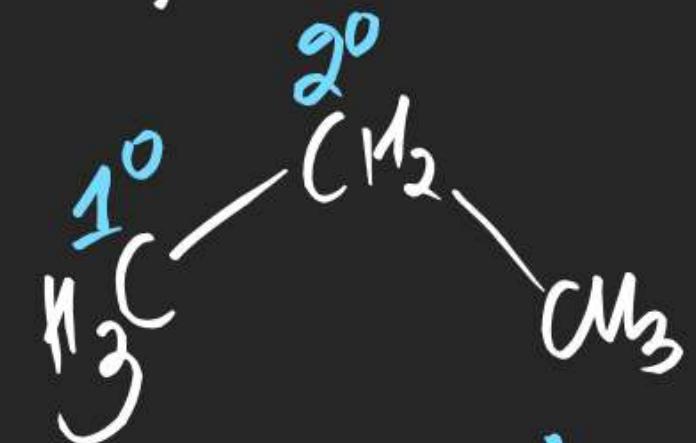
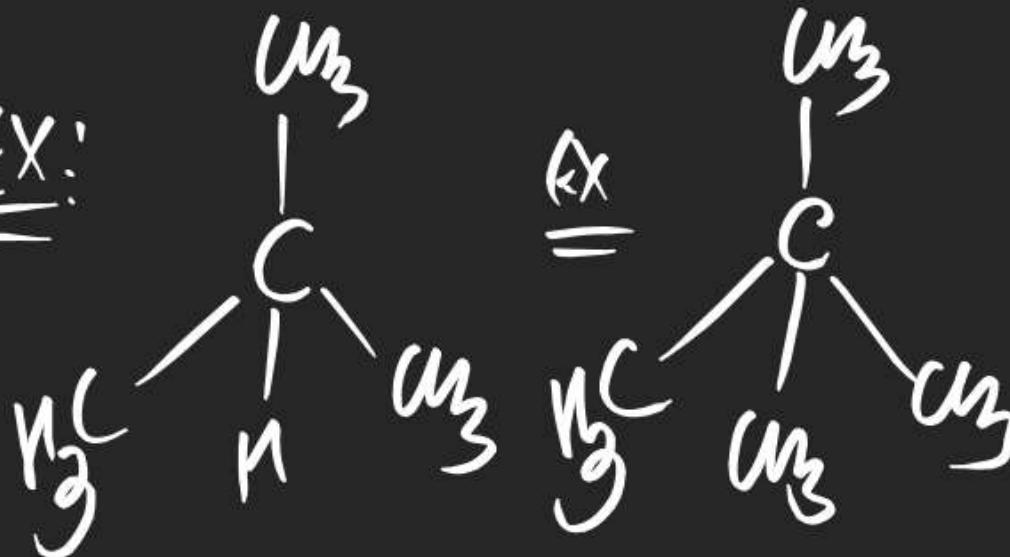
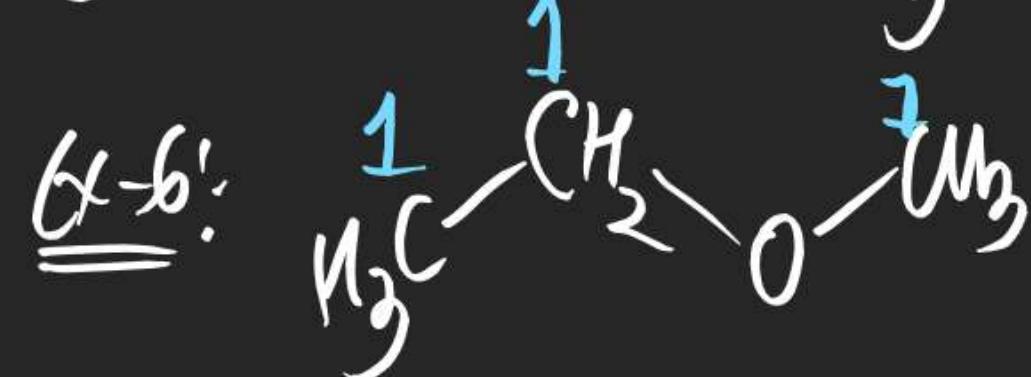
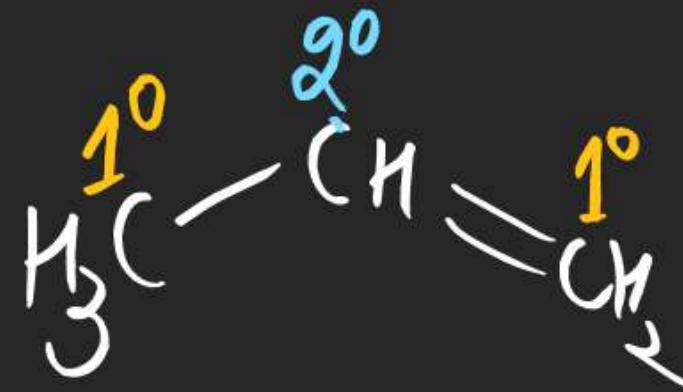
11th OC Chapter Sequence:

- (*) UBOC (Ultra Basic Organic chemistry)
- (*) BOC (Basic Organic Chemistry)
- (*) IUPAC (Nomenclature)
- (*) GOC (General Organic Chemistry)
- (*) Structural Isomerism
- (*) Hydrocarbon (only for 11th class)

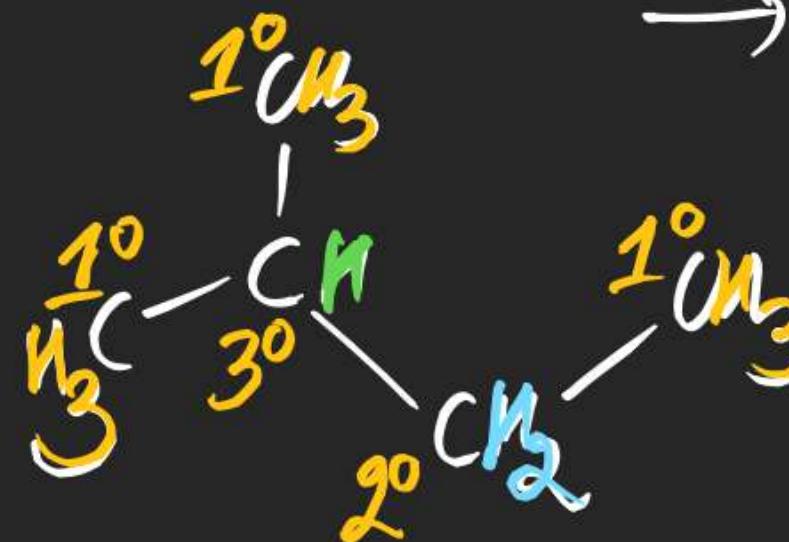
IIT
main &
Advanced

Basic Organic chemistry:

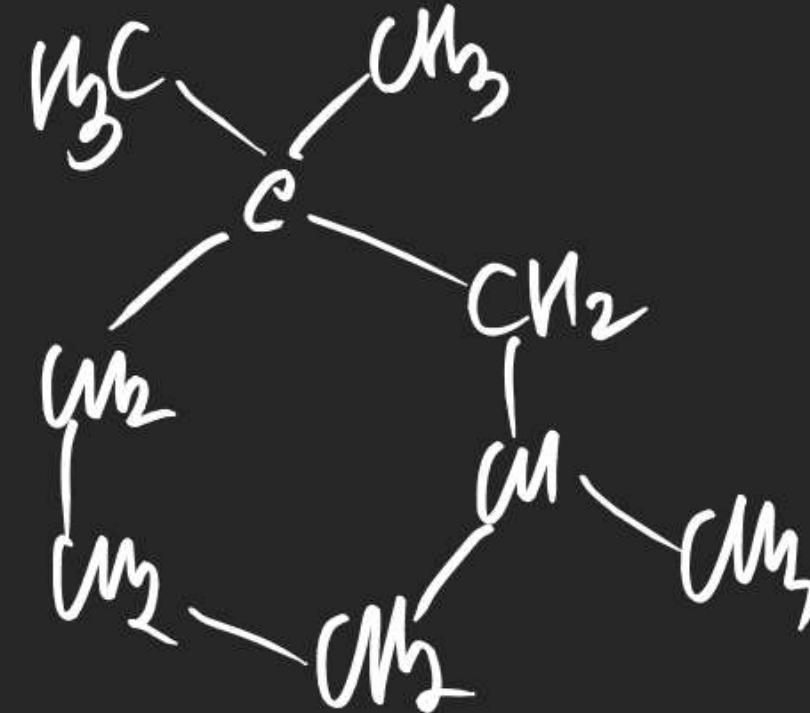
- (i) Types of Carbon → Primary Carbon / 1° Carbon ⇒ Carbon attached with 1C or none "C"
 → Secondary Carbon / 2° Carbon ⇒ _____ 2C
 → Tertiary Carbon / 3° Carbon ⇒ _____ 3C
 → Quaternary Carbon / 4° Carbon ⇒ _____ 4C

Ex:Ex:Ex:Ex-5:

(ii) Types of Hydrogen: → Primary Hydrogen / $1^\circ H \Rightarrow H$ attached at 1° carbon
 → Secondary Hydrogen / $2^\circ H \Rightarrow$ 2° carbon
 → Tertiary Hydrogen / $3^\circ H \Rightarrow$ 3° carbon

Ex:-

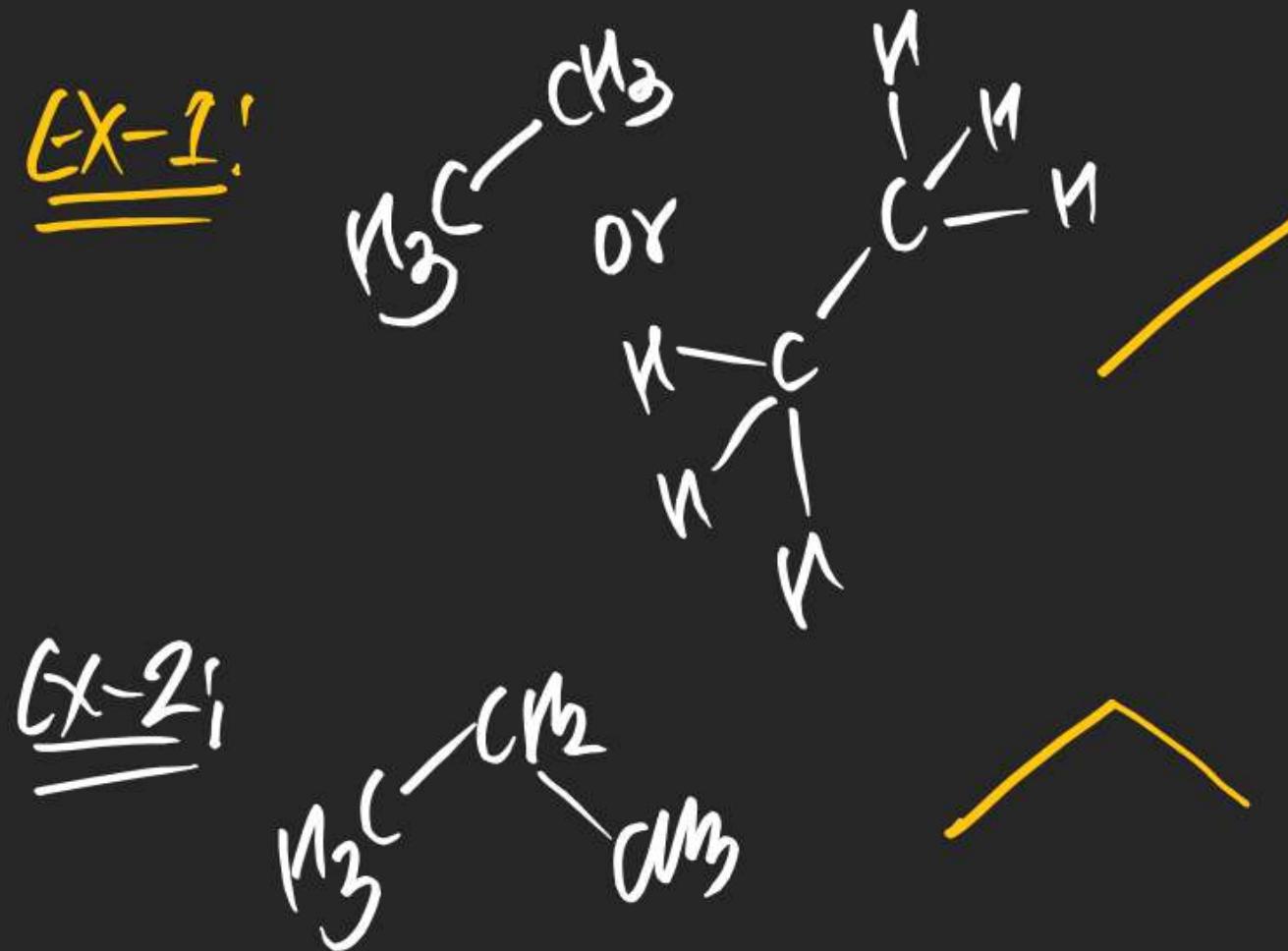
$4^\circ C$	$3^\circ C$	$2^\circ C$	$1^\circ C$	$3^\circ H$	$2^\circ H$	$1^\circ H$
0	1	1	3	1	2	9

Ex:-

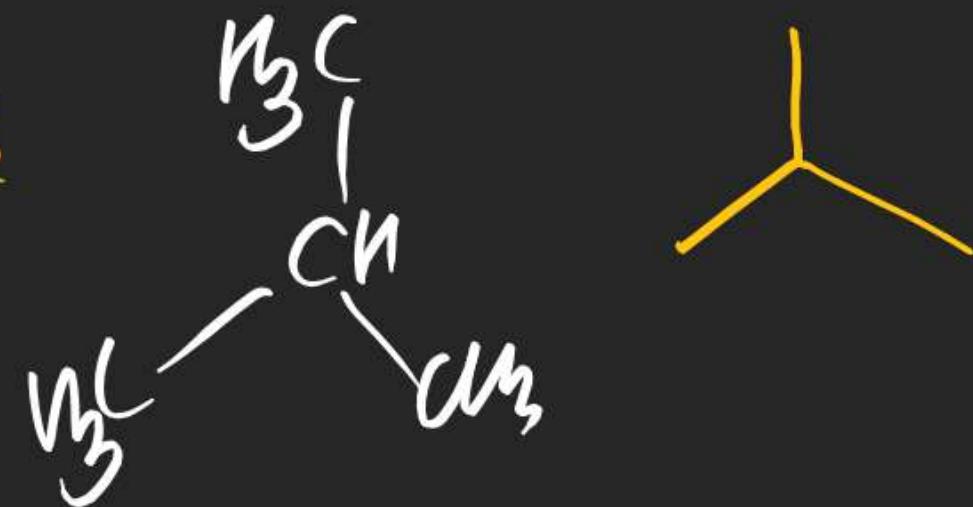
(iii) Bond line formula:-

- (*) Never draw C-H Bond
- (x) Represent each Carbon-Carbon Bond By line
- (x) Each corner of line formula is a Carbon atom.

Ex-1:

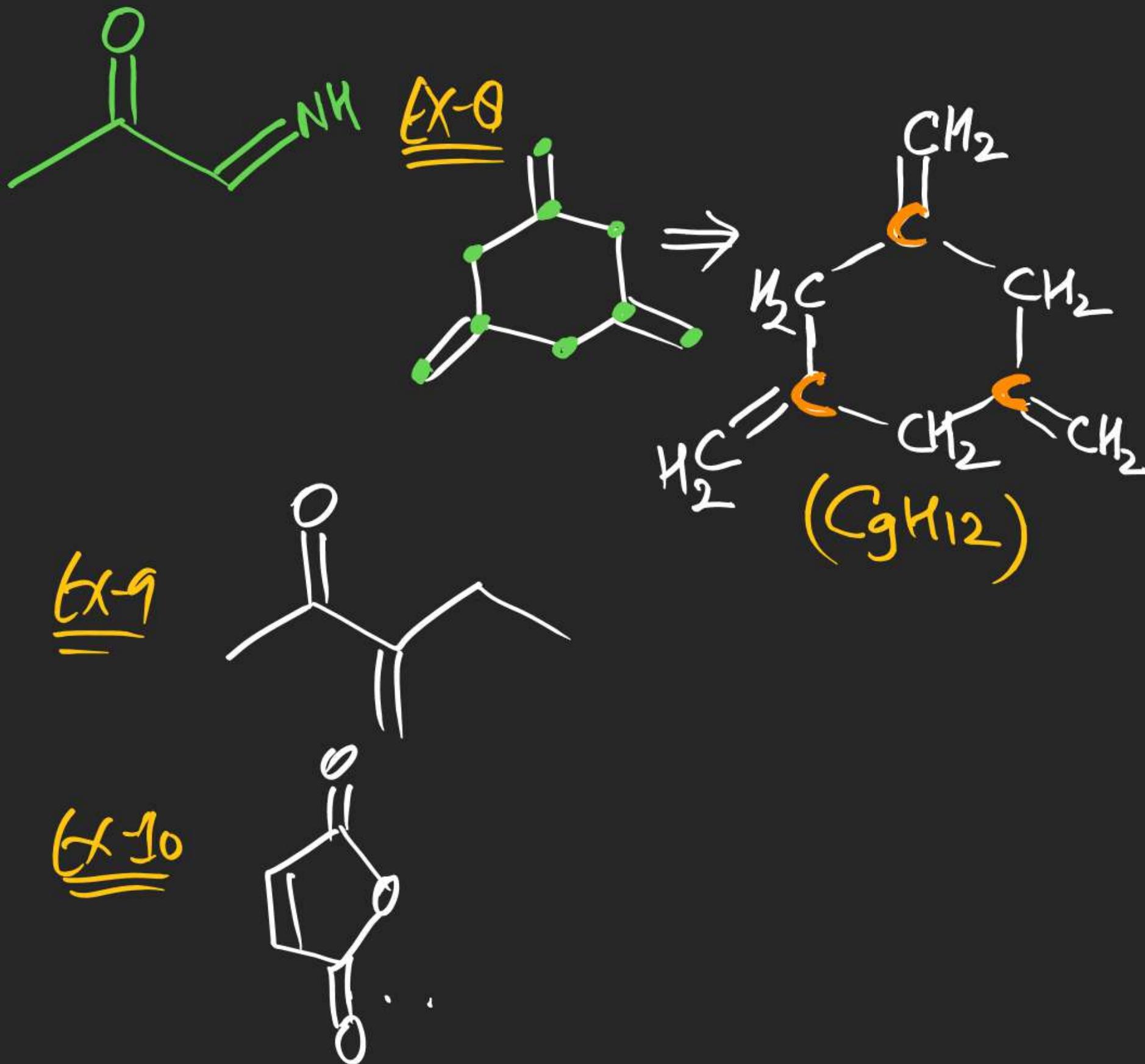
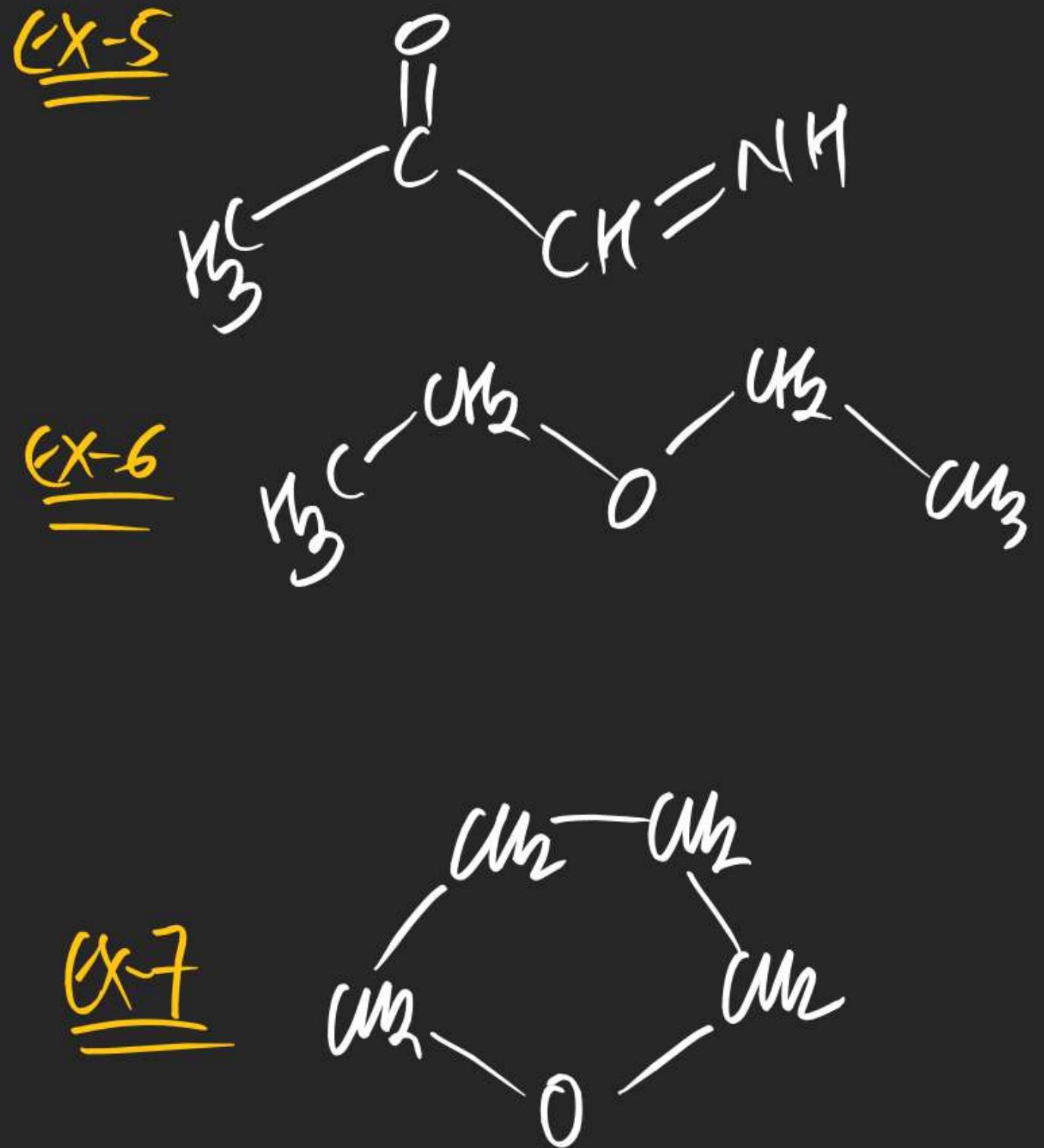


Ex-3



Ex-4:



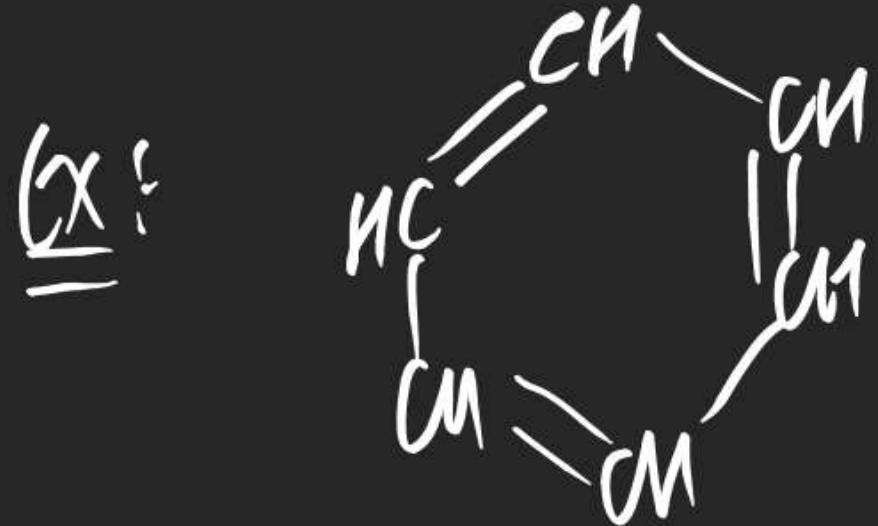
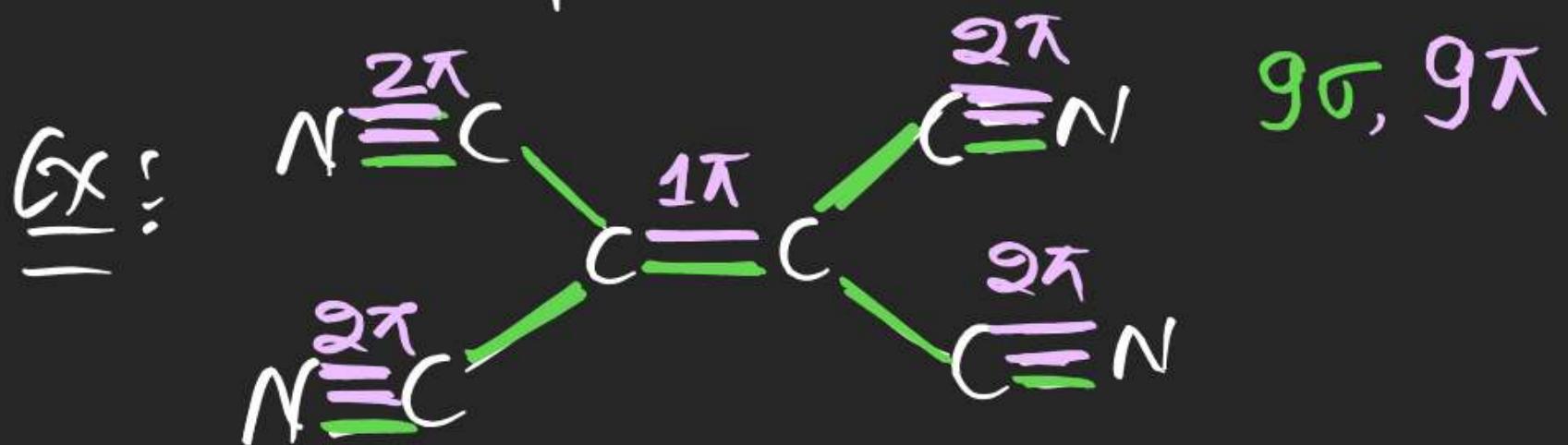
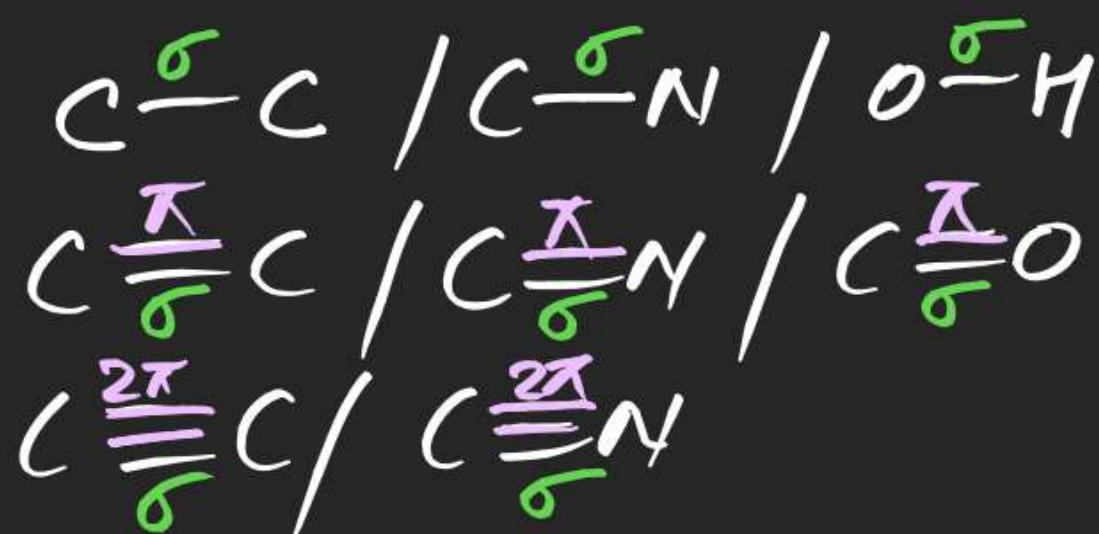


(#) σ & π Bond

Each Simple Bond $\Rightarrow \underline{1\sigma}$

Each double Bond $\Rightarrow \underline{1\sigma} + 1\pi$

Each Triple Bond $\Rightarrow 1\sigma + 2\pi$



~~(A) TBP~~

(+) Double Bond Equivalent (DBE)

(or) Degree of Unsaturation (DOU)

(or) Index of Hydrogen deficiency (IHD)

$= \frac{\Delta n_H}{2} = \frac{\text{Total No. of Rings} + \text{Total No. of } \pi \text{ Bonds}}{\text{When Str. is given}}$

Ex-1:

$$\begin{aligned} DBE &= DOU = IHD \\ &= 1 + 2 \\ &= 3 \end{aligned}$$

Alkane $C_n H_{2n+2}$

Ex-2: $C_8 H_{18}$

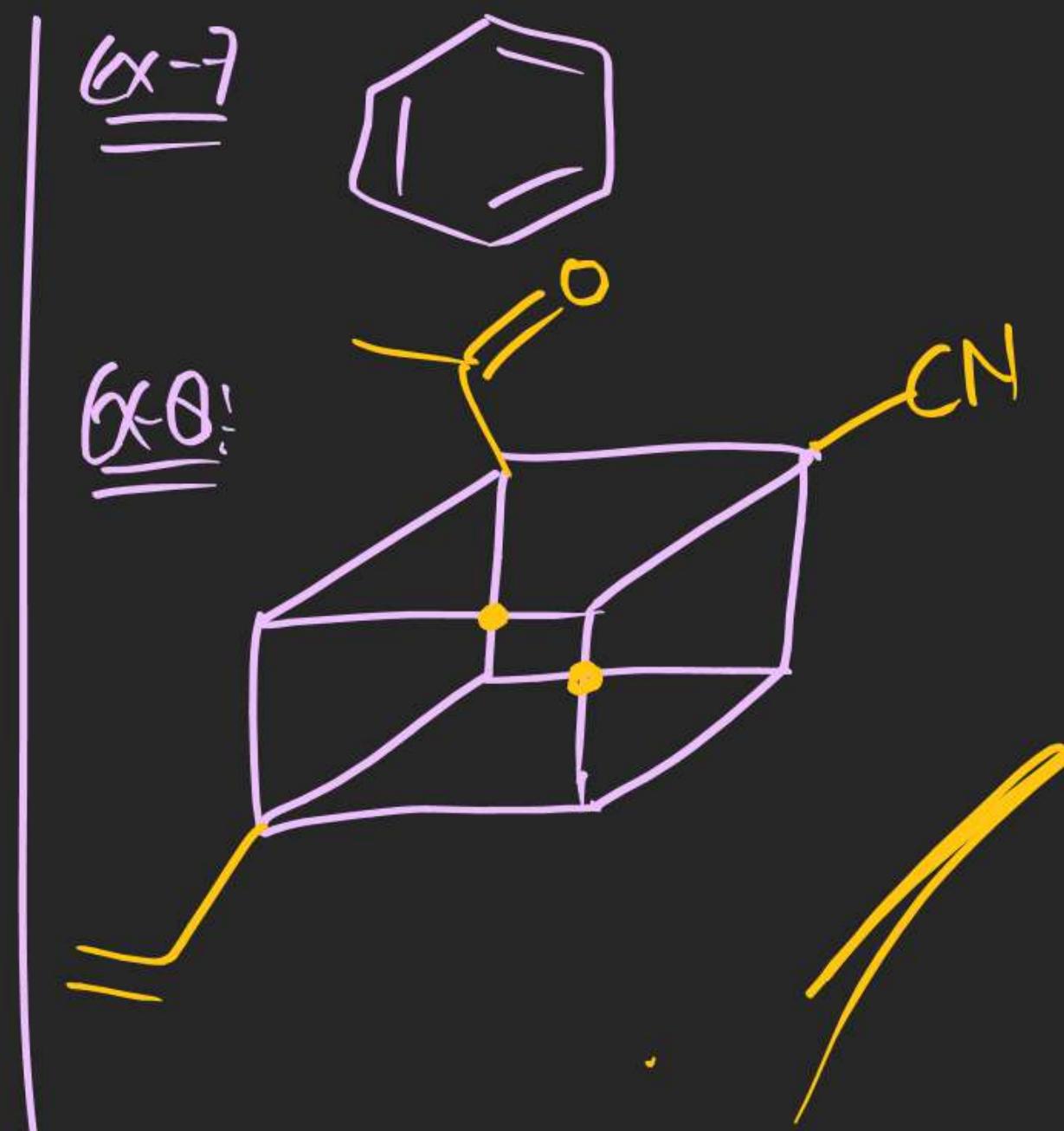
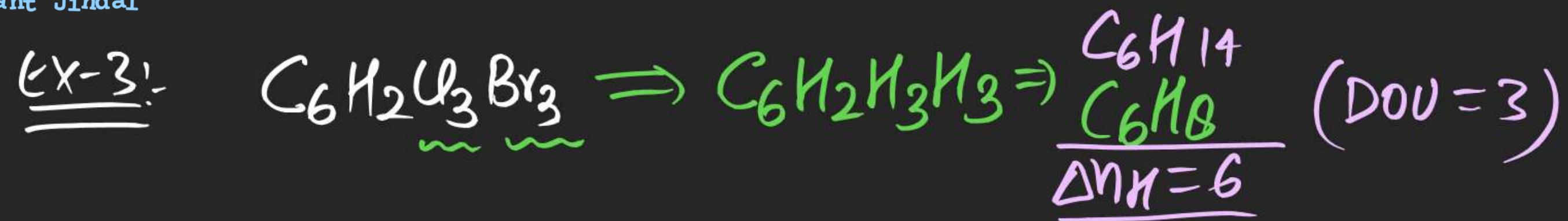
$$DBE = DOU = IHD = \frac{\Delta n_H}{2} = \frac{10}{2} = 5$$

$$\Delta n_H = 10$$

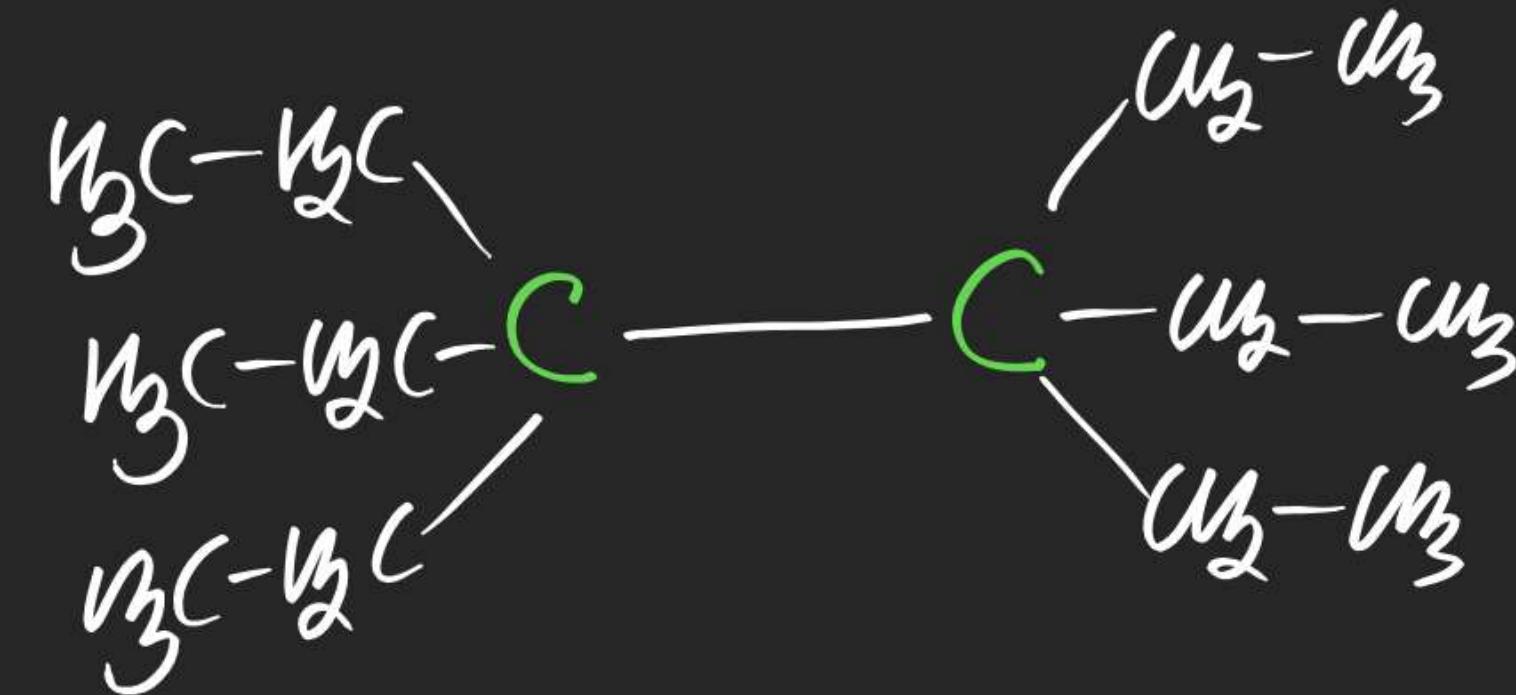
Note (i) monovalent atom (-F, -Cl, -Br, -I, -F, -D, -T) \Rightarrow Replace By "H"

(ii) Bivalent atom (O) \Rightarrow Neglect these atoms.

(iii) Trivalent atom (N) \Rightarrow Neglect NN.



(+) Condense formula:



Theory Copy Register \Rightarrow (Class Theory + Class Question)

Register \Rightarrow DPP & sheet

Register \Rightarrow Blue Book [Problems & Solution]
[of Organic Chemistry]

(enapcye Publication)

Updated "3e"

Sunday ; Time schedule:-

1hr+Chas

9:30pm — 12:00am

12:00am — 6:30am

(Sleeping Time)

1hr+Phys

6:30am — 7:30am

[Ready + Fresh + B.F]

7:30am — 10:30am

1hr+Math

10:30am — 1:30 pm

(Lunch + Relax)

1:30pm — 2:30 pm



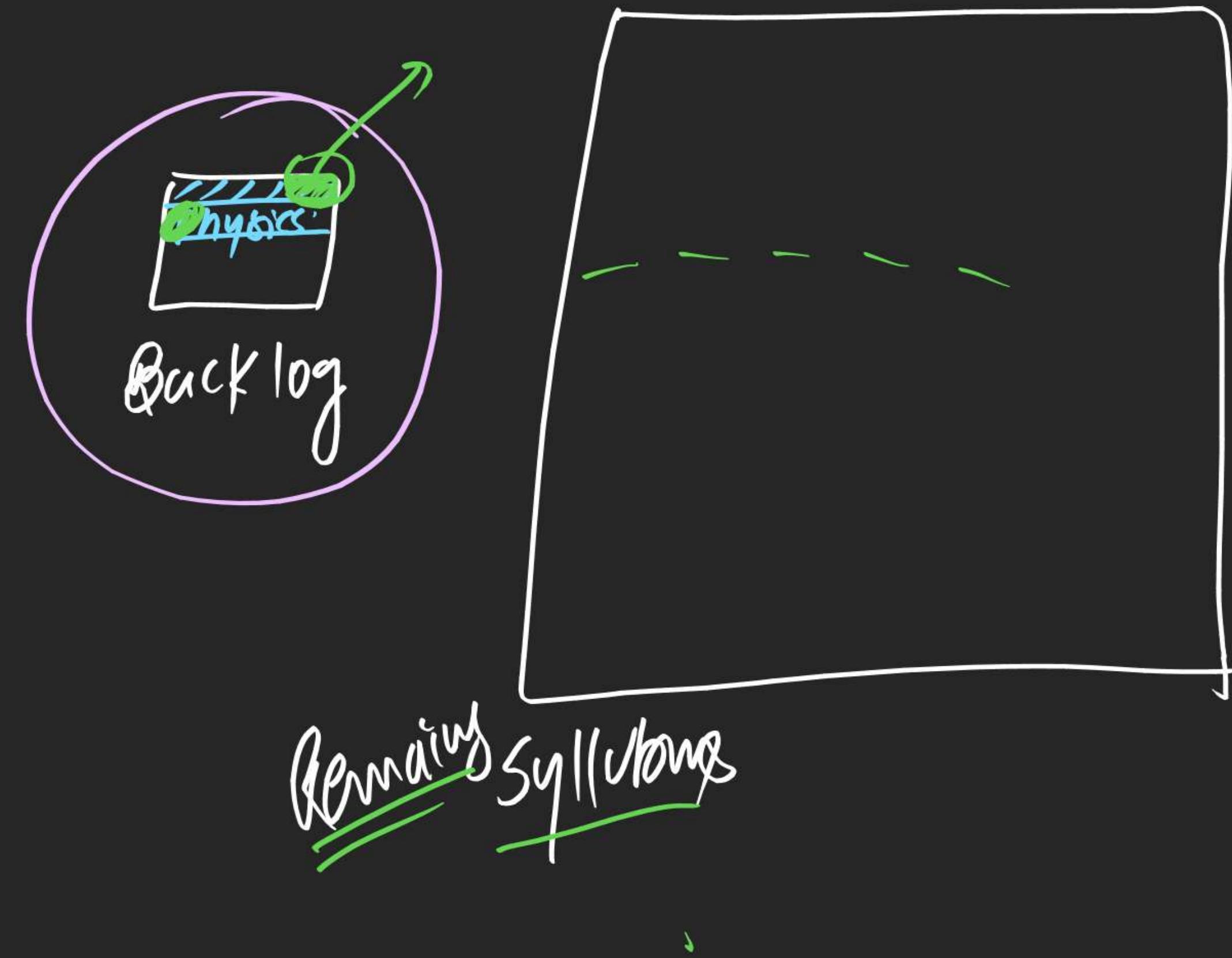
2:30pm — 4:00pm

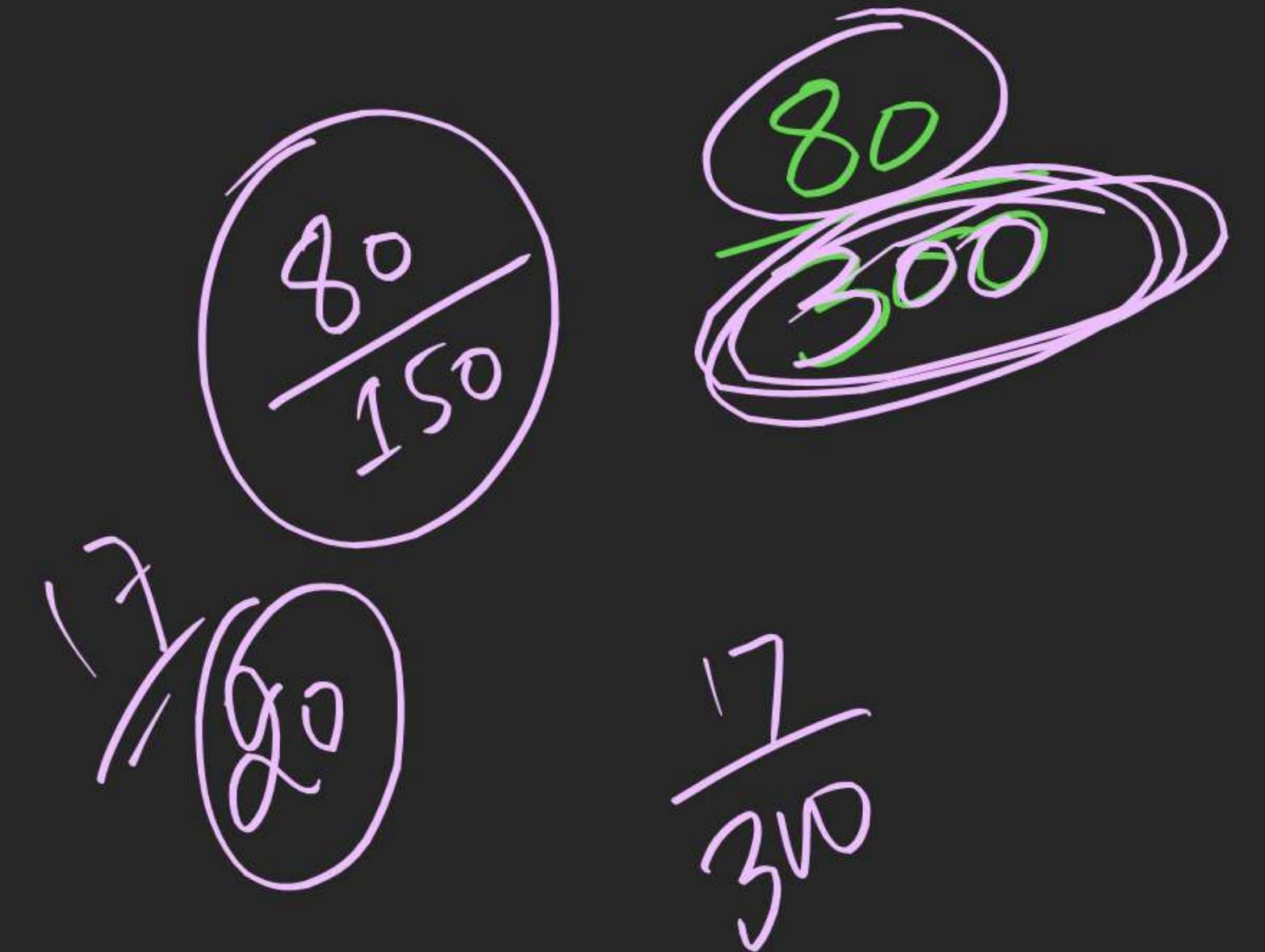
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6:30 ≤ ST < 7hr

for school

9:30 — 12:30 AM

9:30pm - 10:30 P
10:30pm - 11:30 C
11:30pm - 12:30 M





IUPAC

functional Group