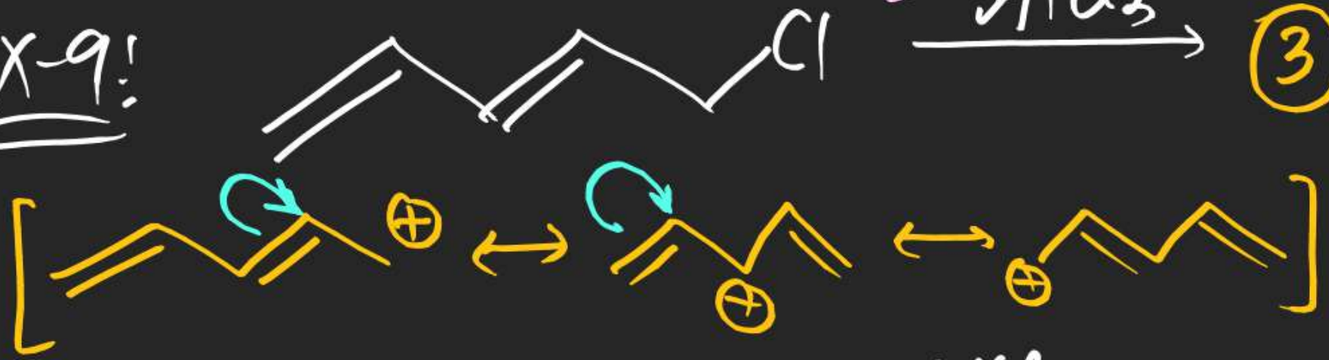
Ex-8: $CH_2=CH-CH_2-Cl \xrightarrow{SbCl_5}$

Soln: $CH_2=CH-CH_2-Cl \xrightarrow{SbCl_5} \left[CH_2^{1}=CH^{2}-CH_2^{3} \leftrightarrow {}^{\oplus}CH_2^{1}-CH^{2}=CH_2^{3} \right]$

$\left(CH_2 \cdots CH \cdots CH_2 \right)$ with $+\frac{1}{2}$ on each terminal carbon

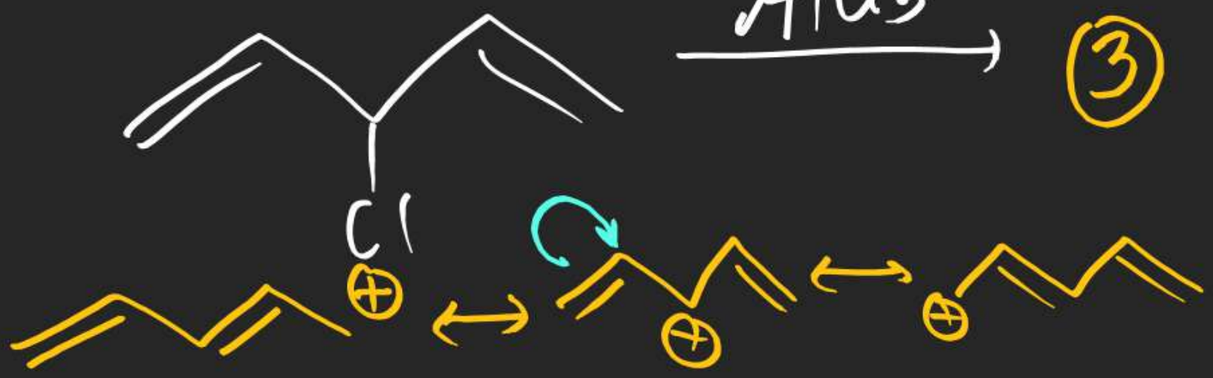
$\xrightarrow{AlCl_3}$ (3)

Ex-9:

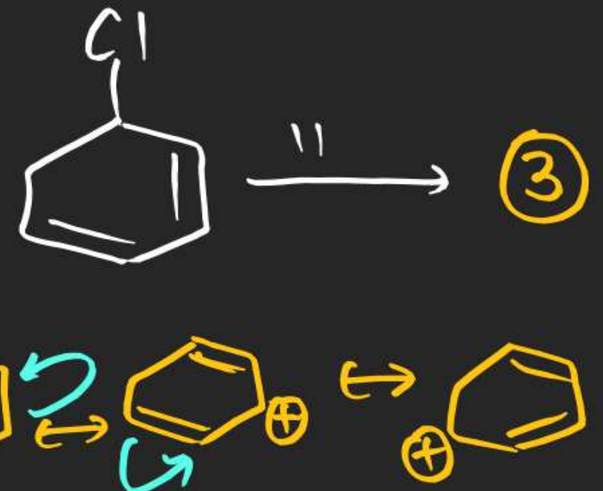


$\xrightarrow{AlCl_3}$ (3)

Ex-10:

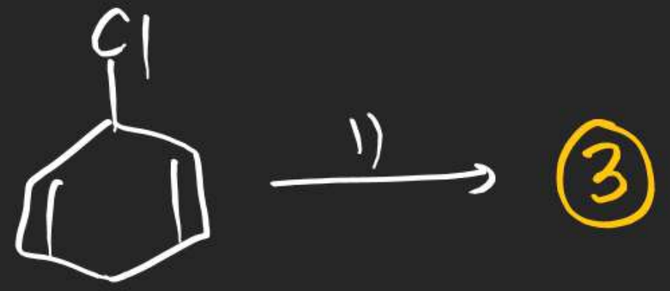


Ex-11:

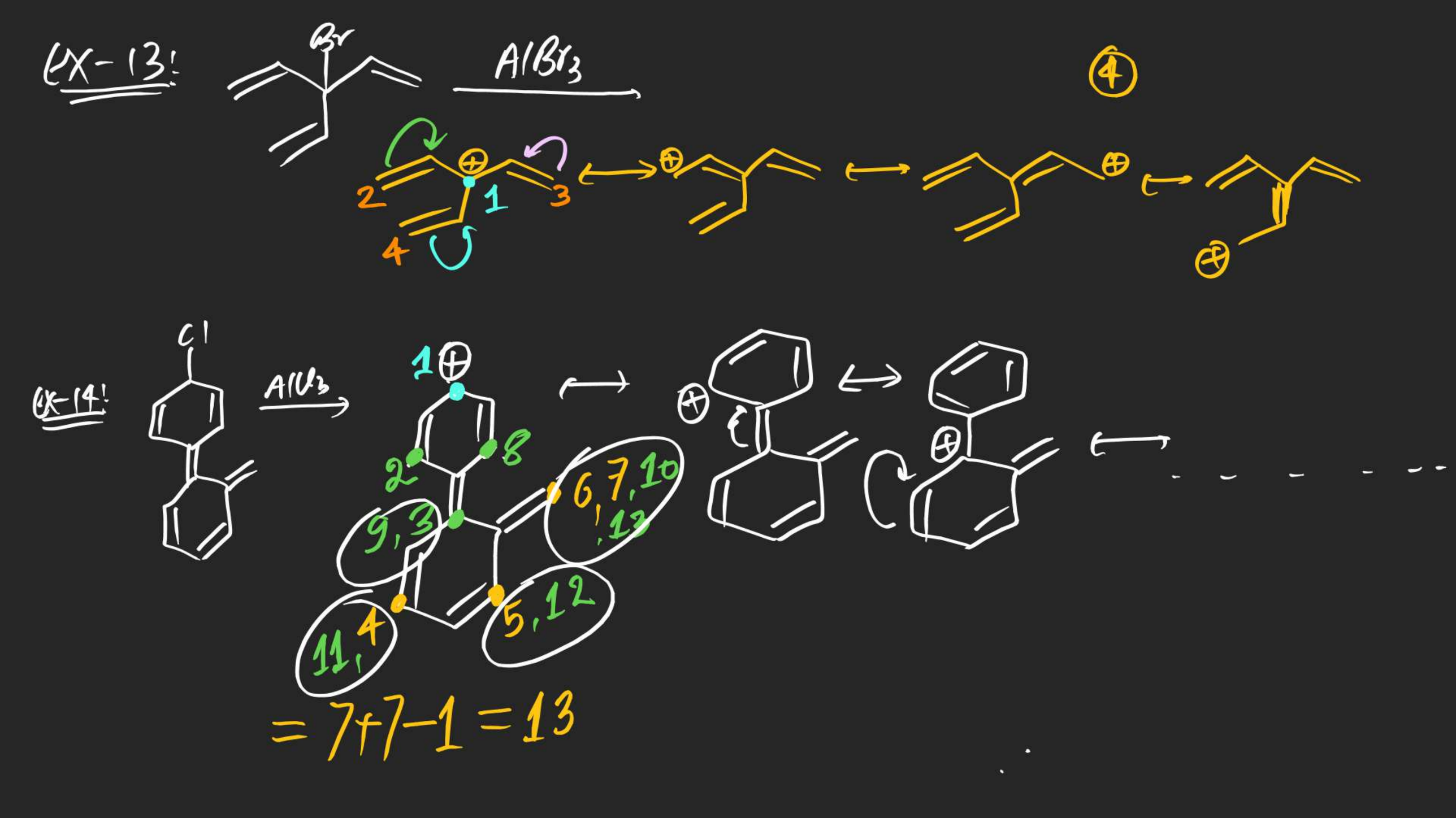


(3)

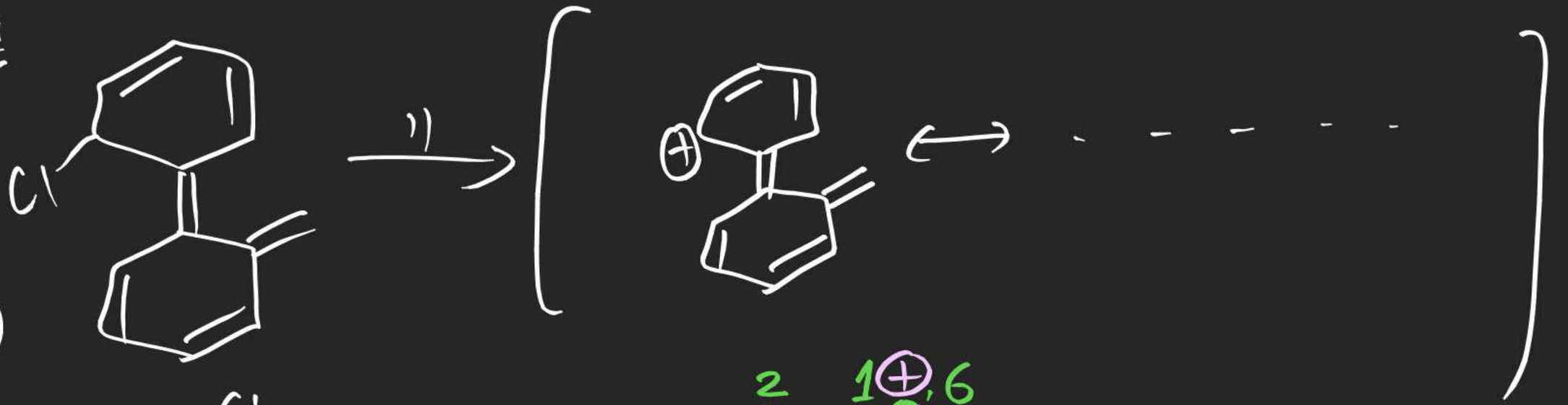
Ex-12



(3)


EX-13:
Br
AlBr3
4
2
1
3
4
EX-14:
Cl
AlCl3
1
2
8
9, 3
6, 7, 10, 12
11, 4
5, 12
= 7+7−1 = 13

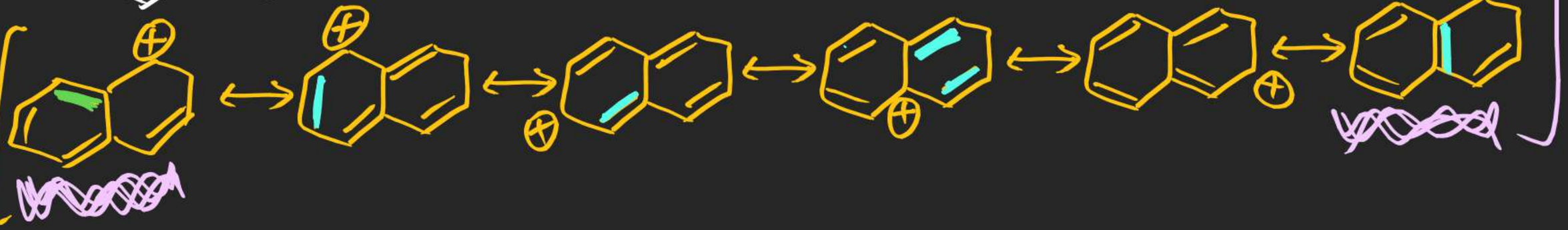
Ex-5:



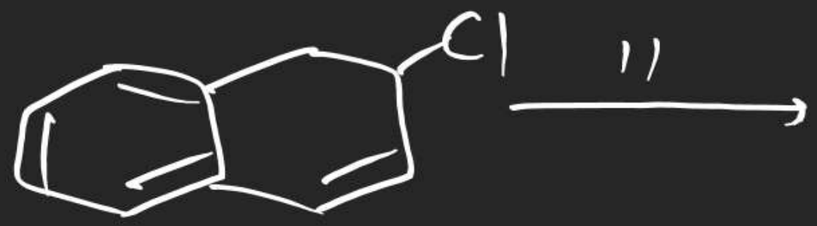
(13)

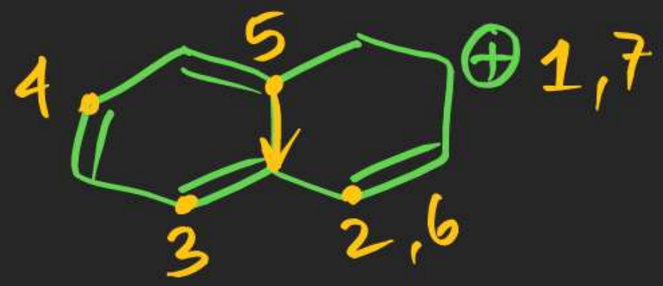
Ex-6

Soln:

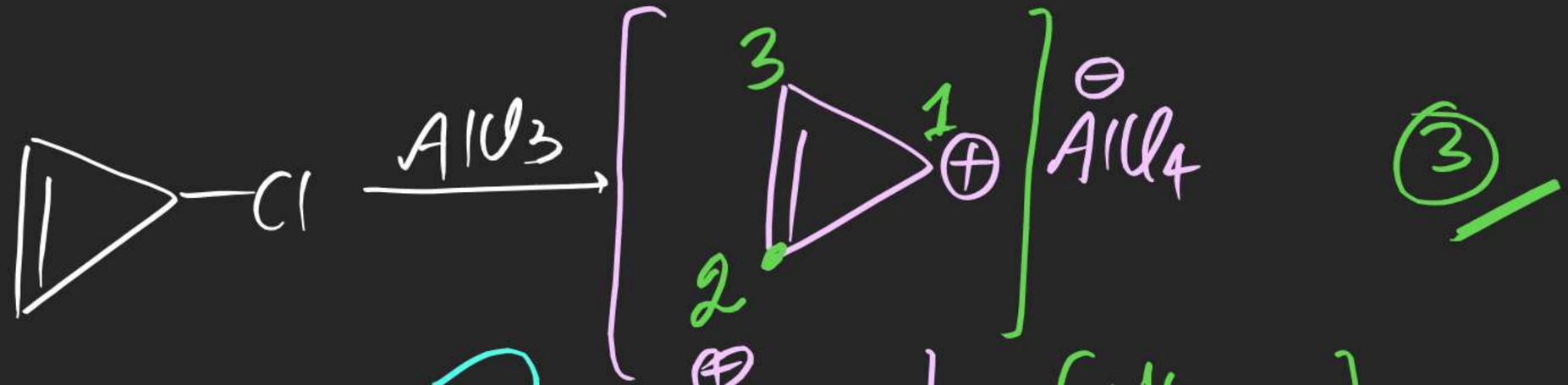


Ex-17

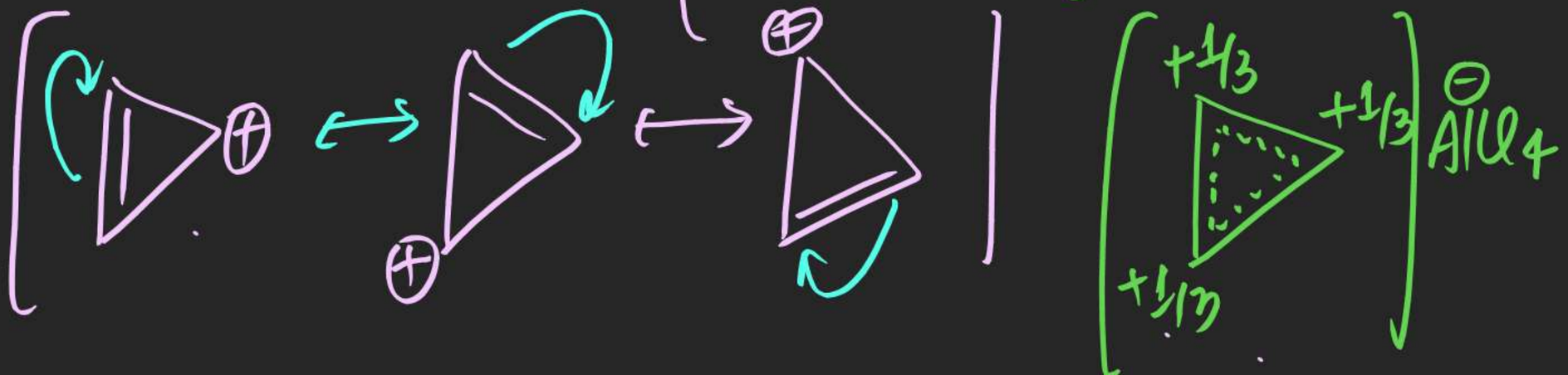




Ex-18:

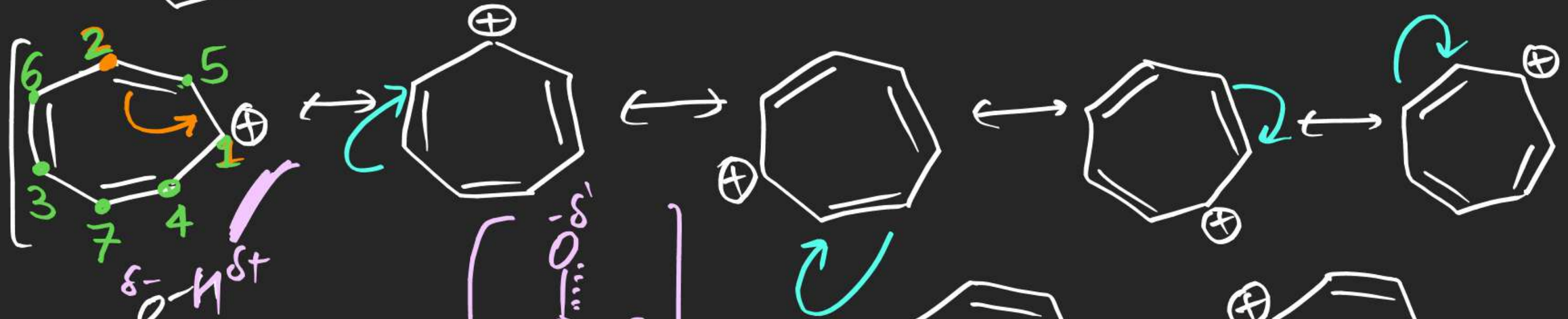


(3)

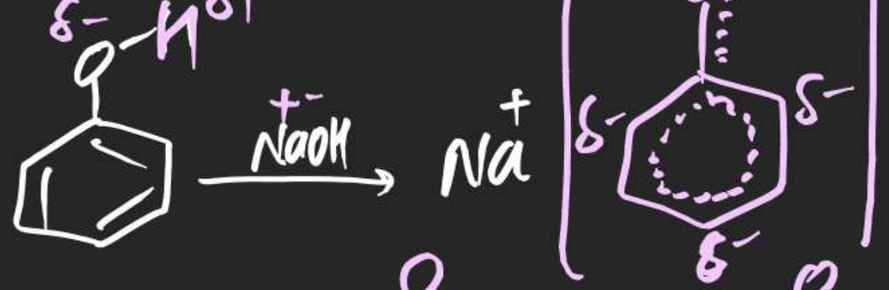


Ex-19

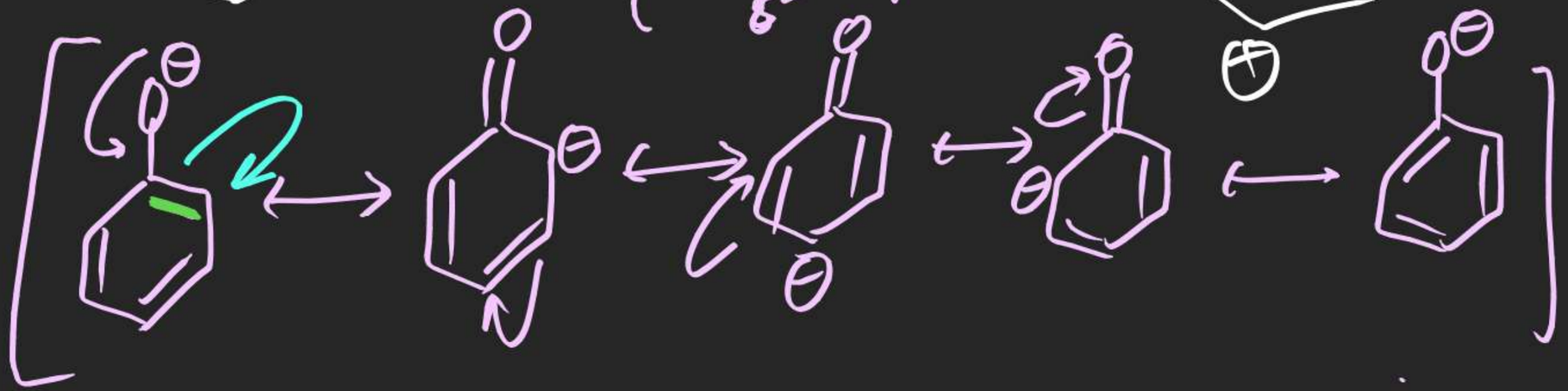
(7)



Ex-20:

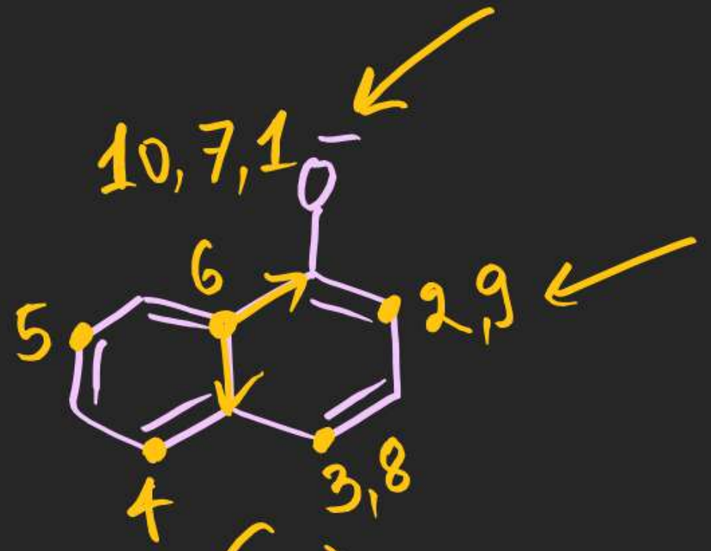


Soln:

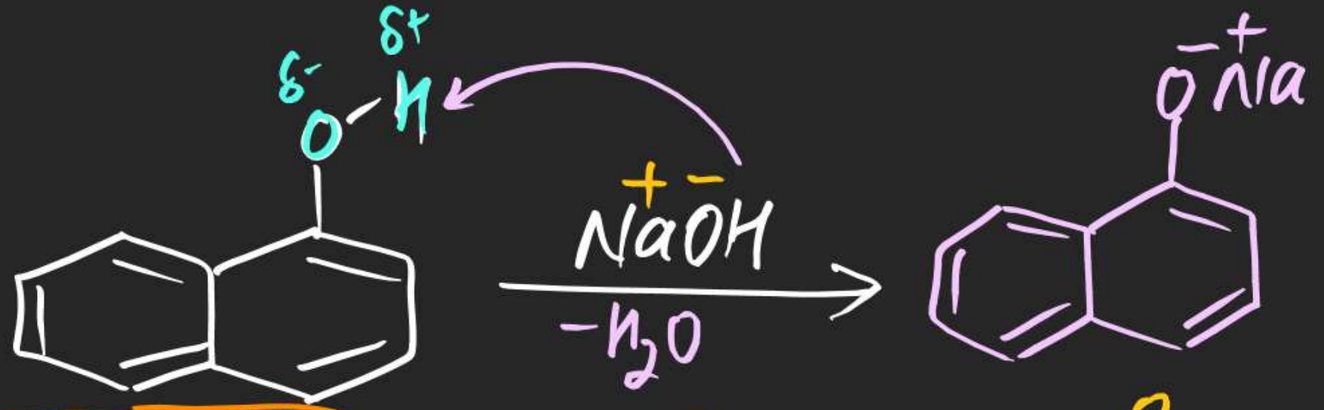


5

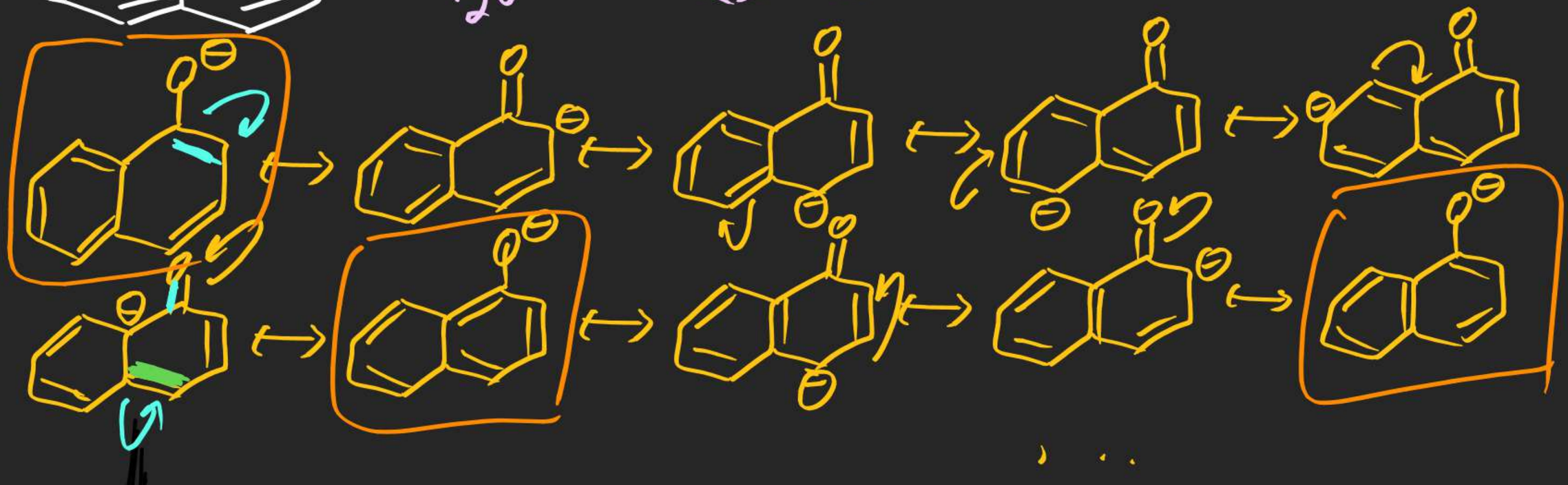
(21)  NaH

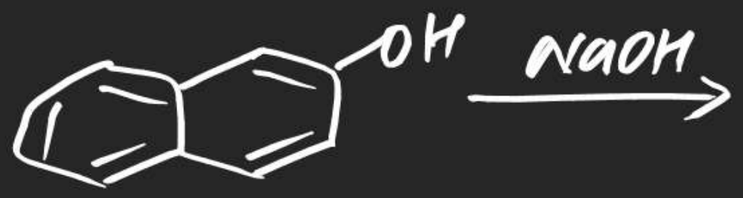


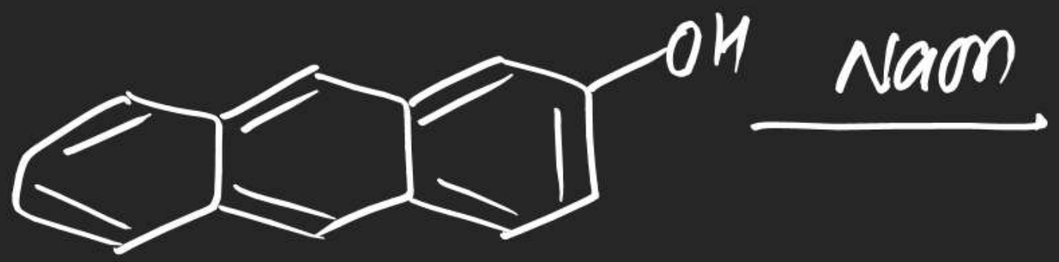
(10)

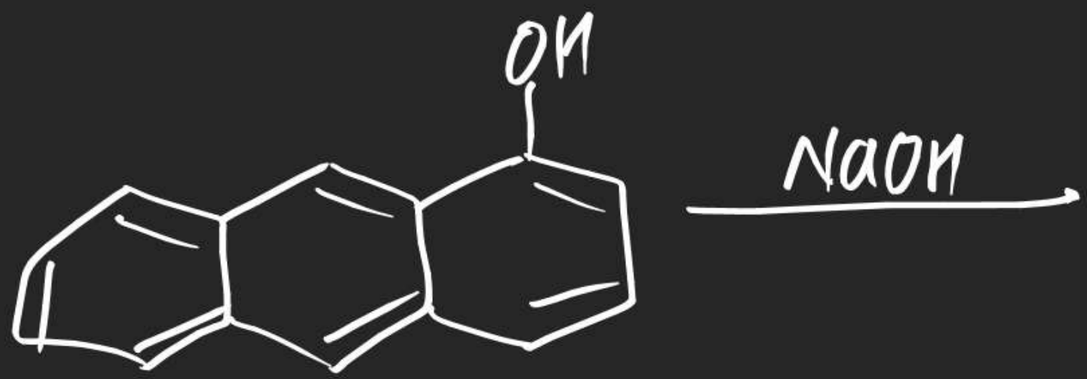
(22) 

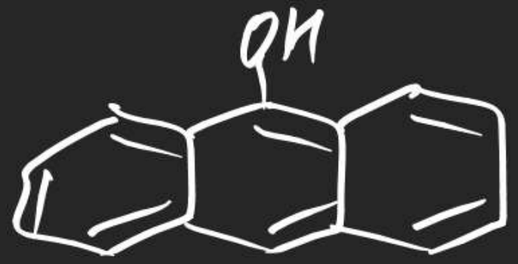
Soln:



(23) 

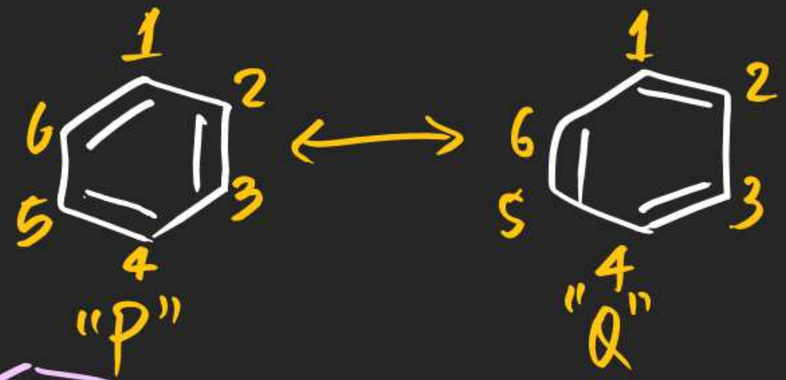
(24) 

(25) 

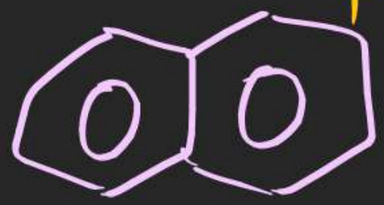
(26) 

(#) Find total no. of Neutral Benzenoid R.S of following.

(27) Benzene 



2

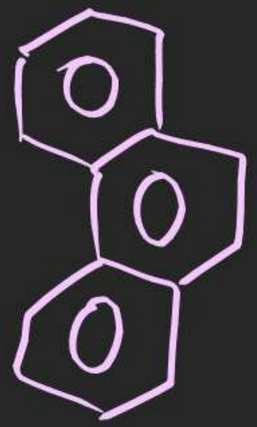
(28) Napthlene 

P Q

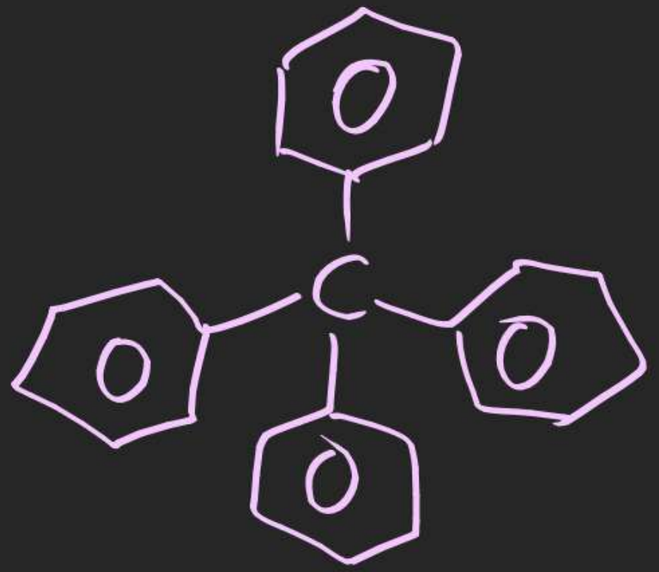
Q

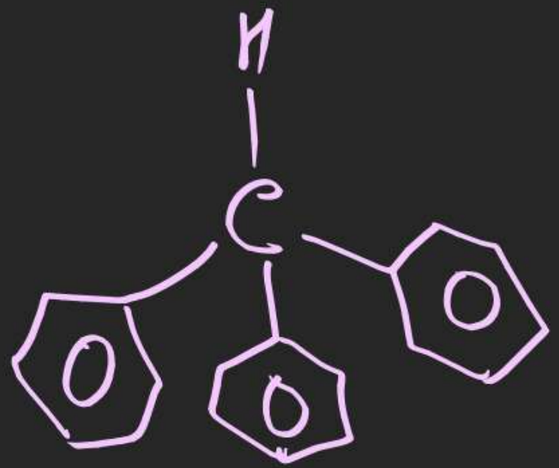
"P"

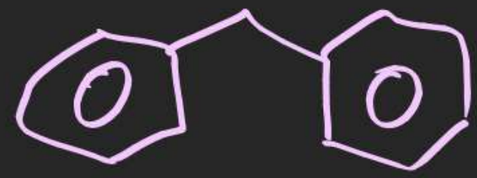
(29) Anthracene 

(30) Phenthrene 

(31) 

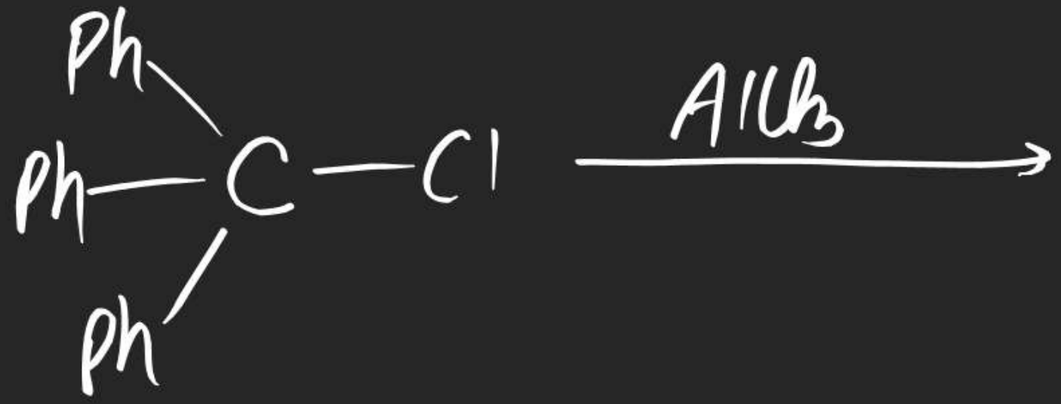
(32) 

(33) 

(34) 

(35) 

(36) Total no. of RS of Product of following Reaction.



(#) Rules for Stability of RS :

(1) RS having Complete octet is more stable than having incomplete octet.

(1) 

II > I

(2) 

II > I

(3) 

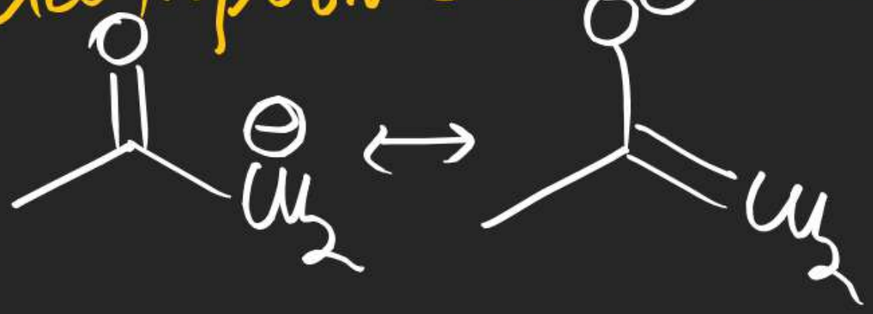
II > I

(2) RS having higher no. of Covalent Bond or less chuye is more stable.

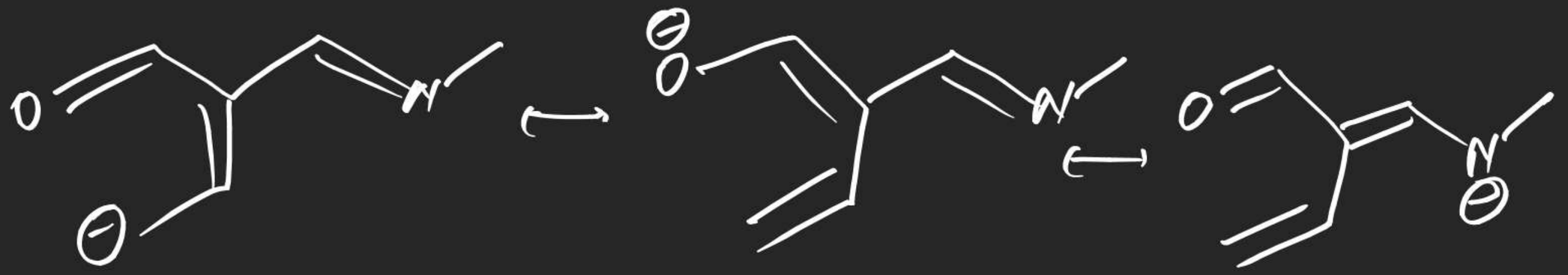
(4)  (I > II)

(5)  (I > II)

(3) RS having (−)ve chuye on Electronegative atom & (+)ve chuye on electropositive atom are relatively more stable.

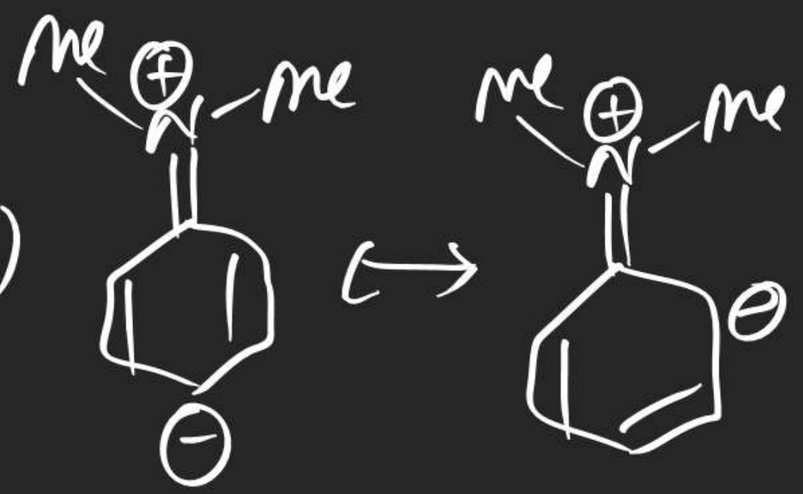
(6)  (II > I)

(7)



(4) RS having opp. charges closer & like charges away are more stable.

(8)



II > I

5

(9) 

(10)