



Doubt Clearing Session

Course on General Organic Chemistry for Class XI

HW

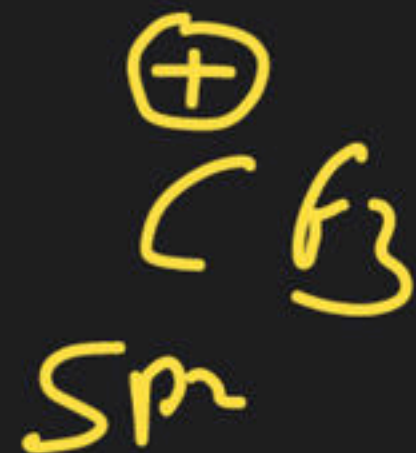
(11)



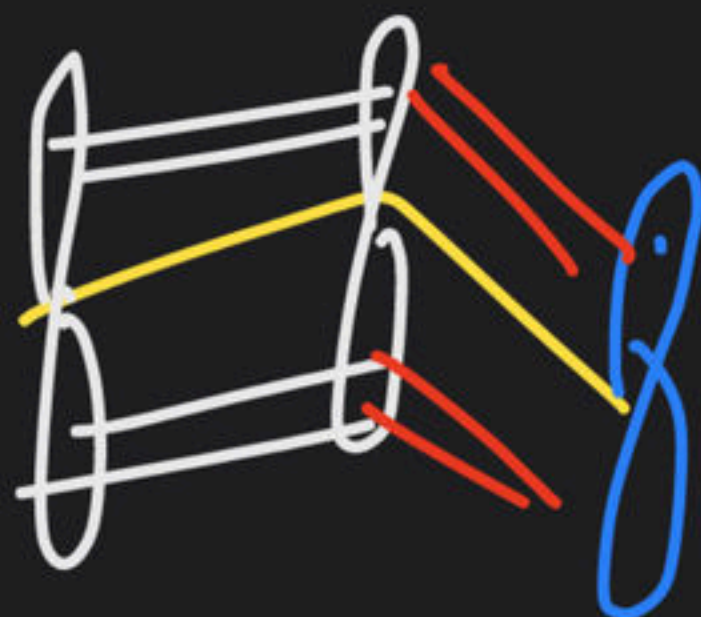
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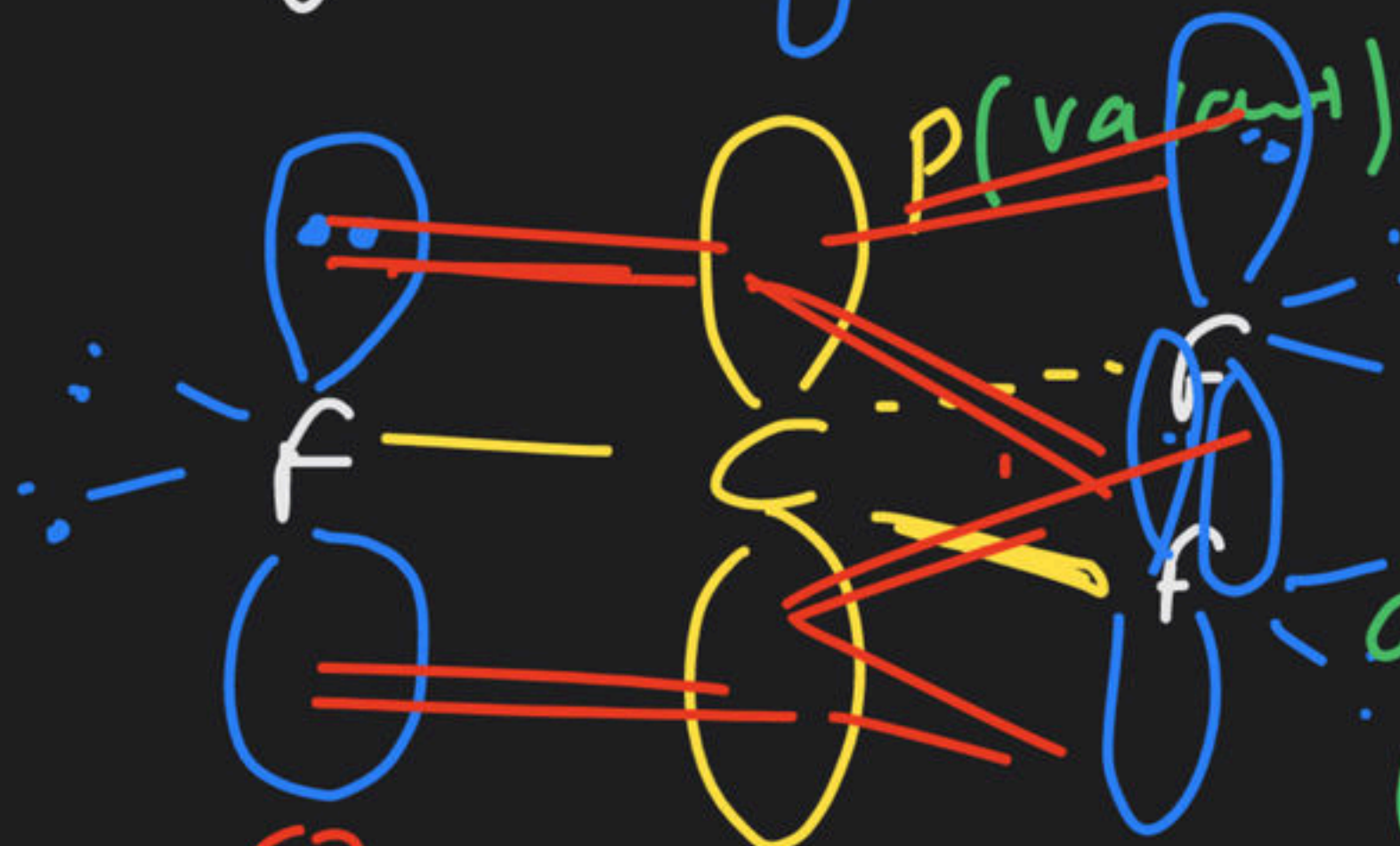
(13)



(14)



$|| P \Rightarrow 3$
 $(\pi e^- = 3)$

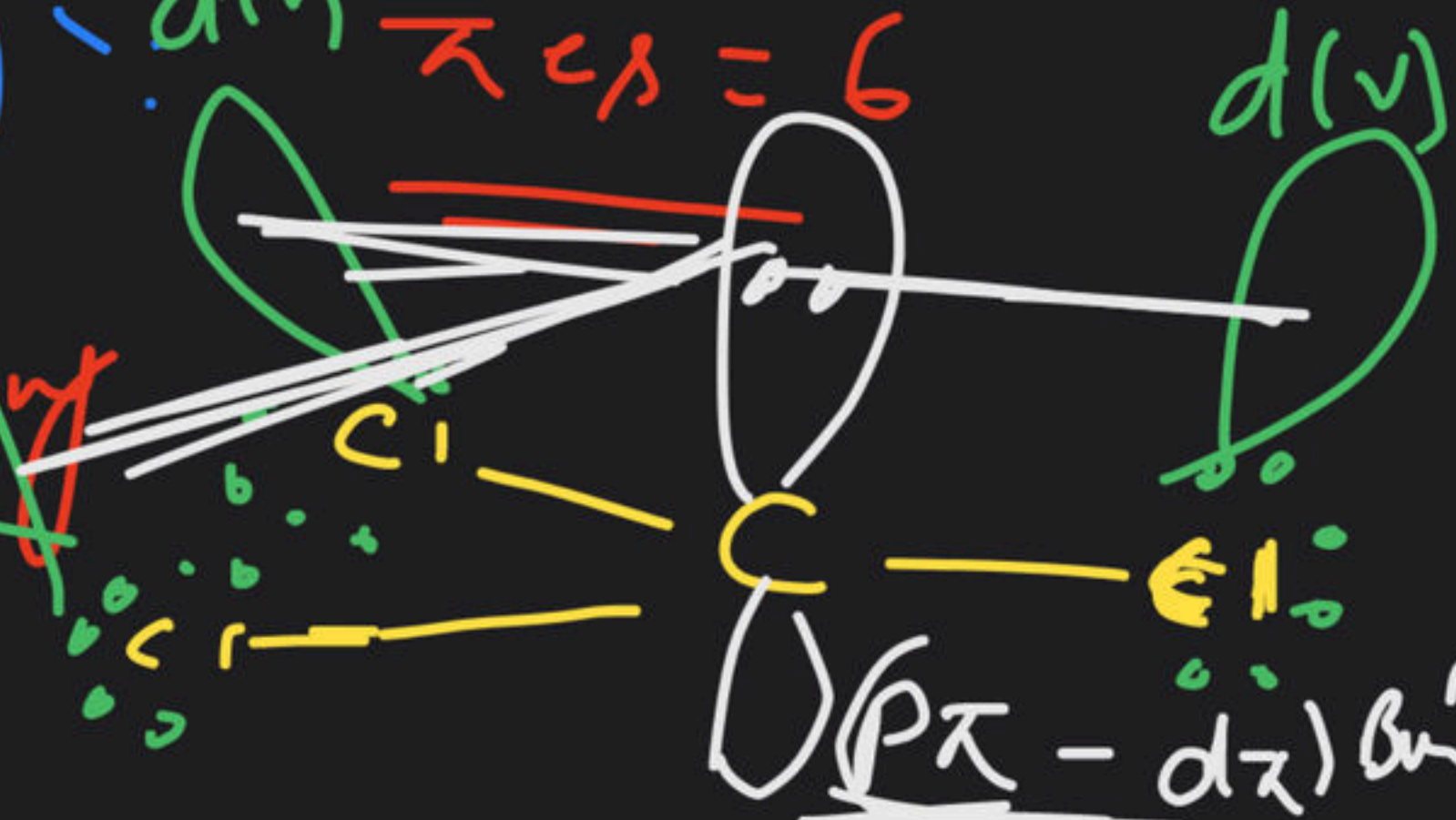


$|| P \Rightarrow 4$

$(P\pi - P\pi)$ Bonding
 $d(\pi)$

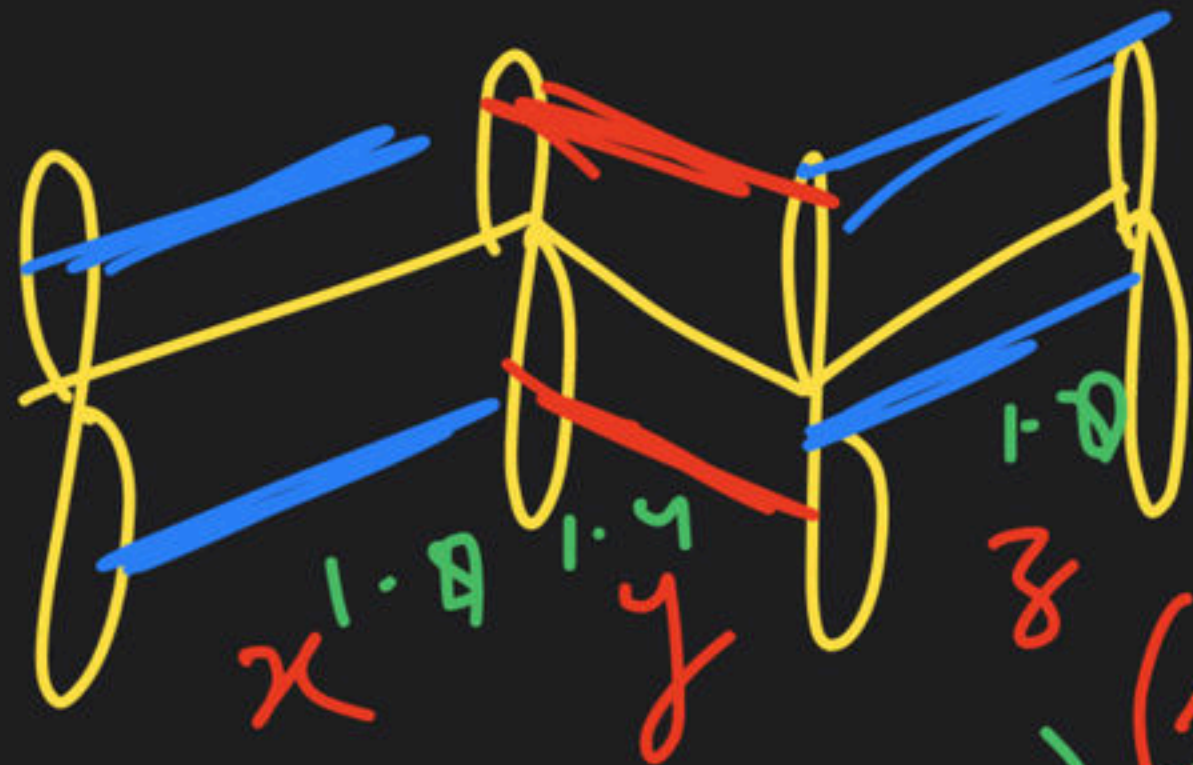
$(\pi e^- = 2)$

$\pi e^- = 6$



$(P\pi - d\pi)$ Bonding

(15)

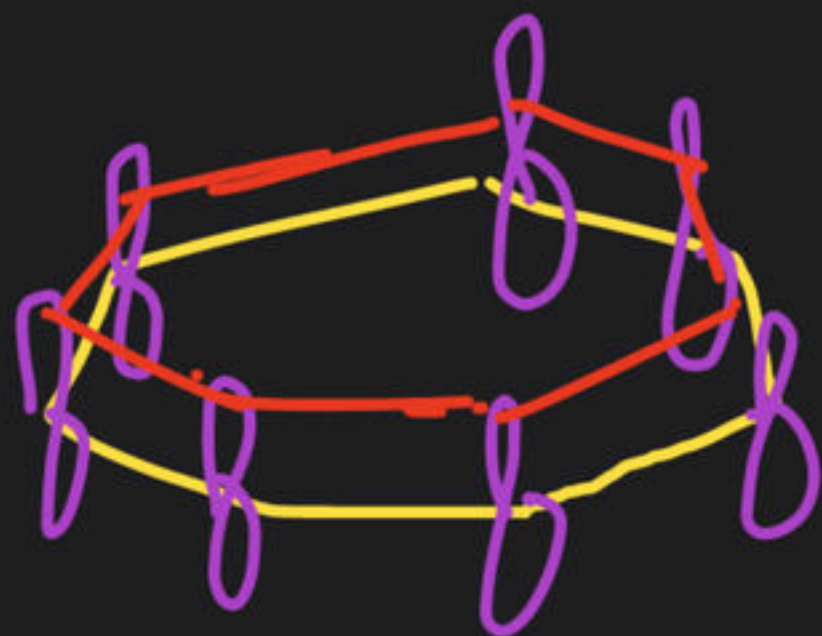


$$||P \Rightarrow 4$$
$$\pi e^- = 4$$

(A) $x = z < y$

Resonance Hybrid. (B) $x = z > y$

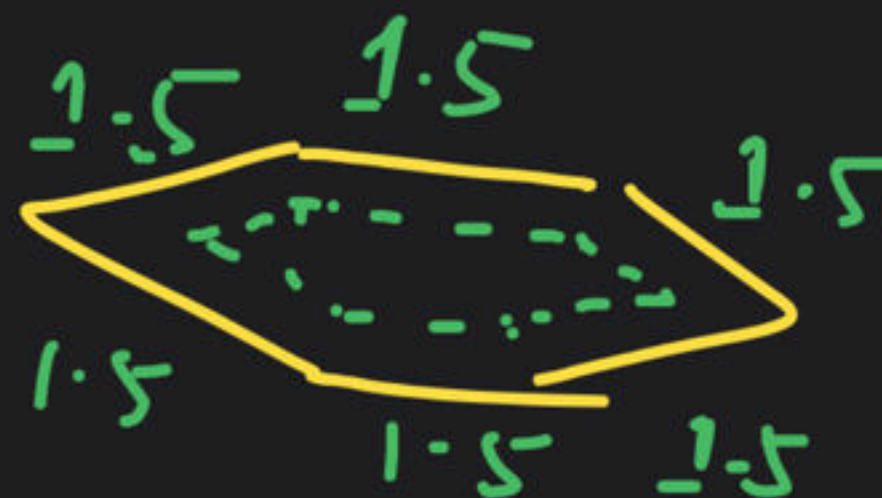
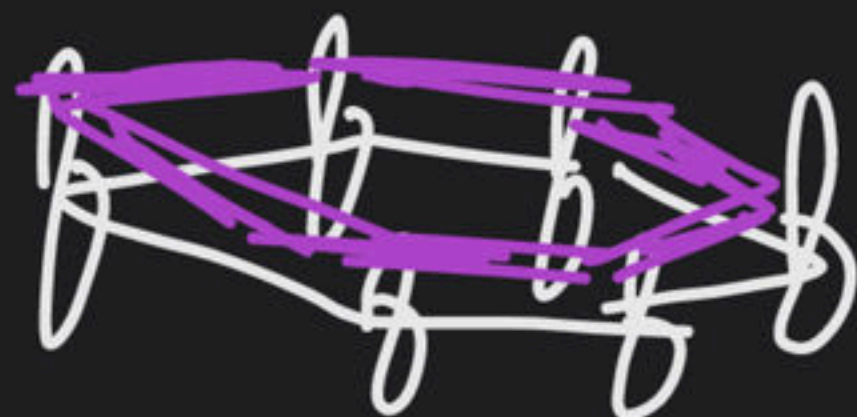
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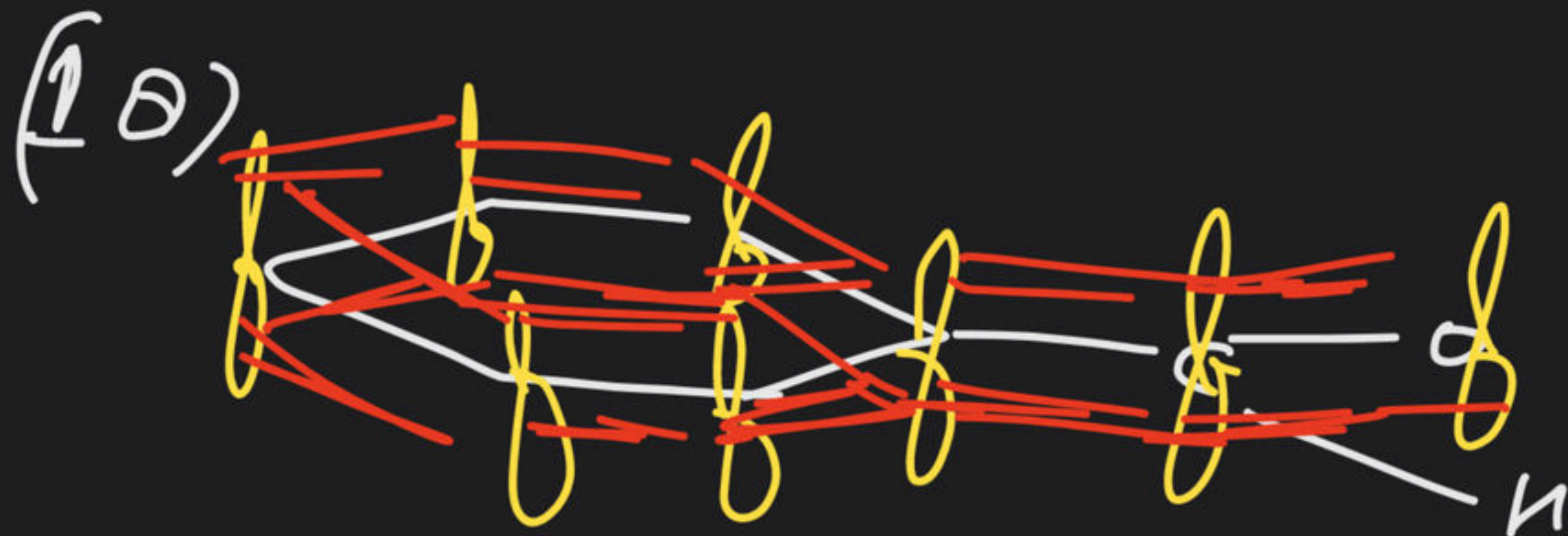


$$||P \Rightarrow 7$$
$$\pi e^- = 6$$

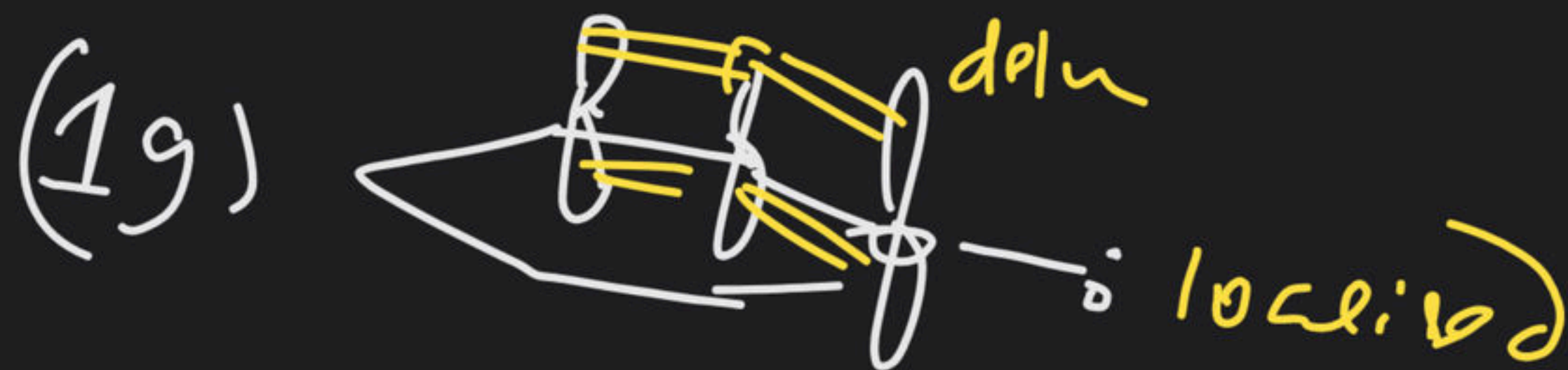


(17)



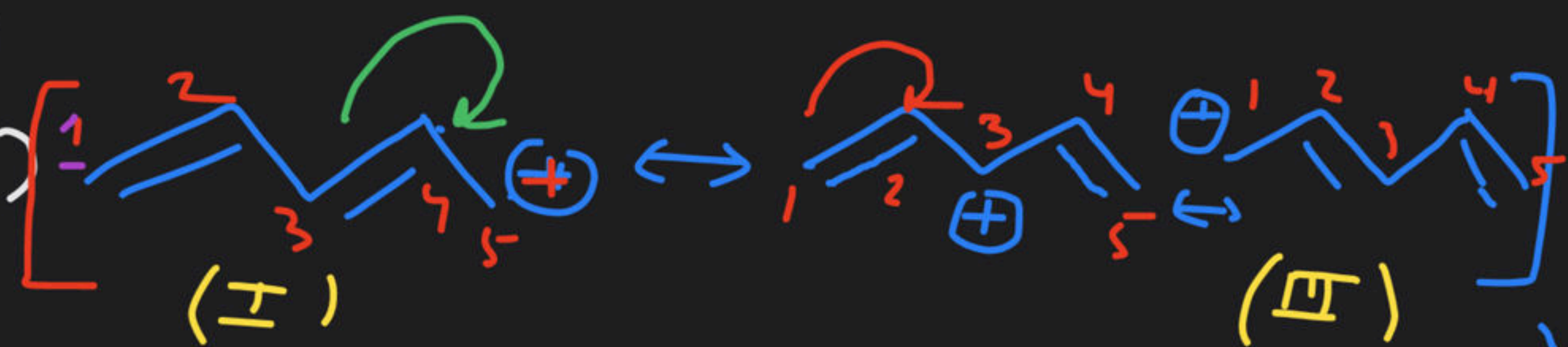


$$1/p = 0$$



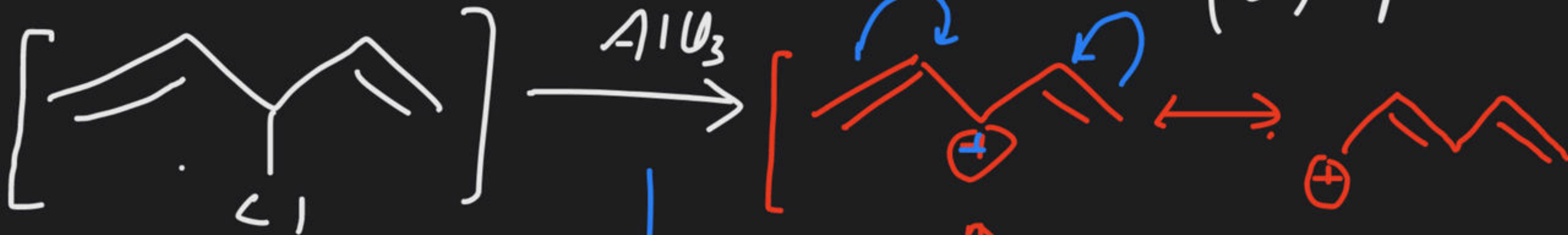
(#)

(10)

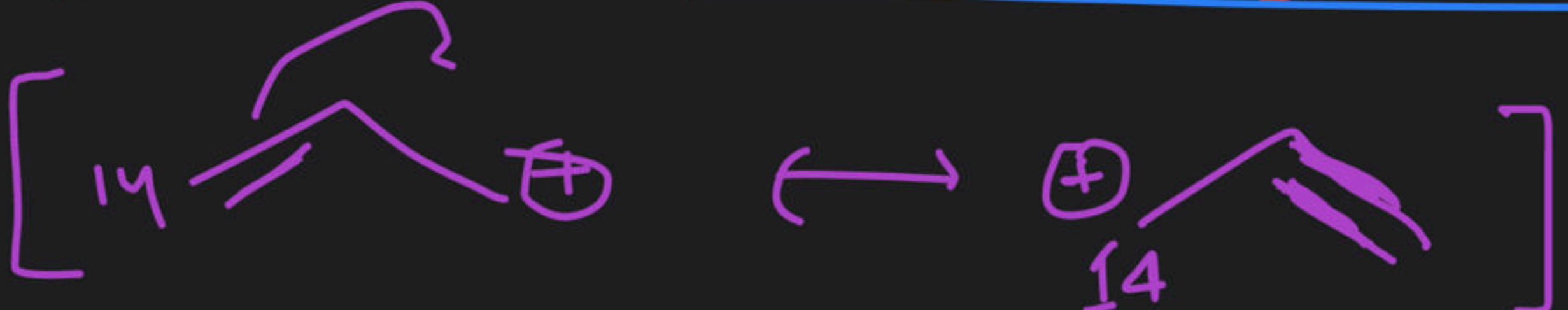
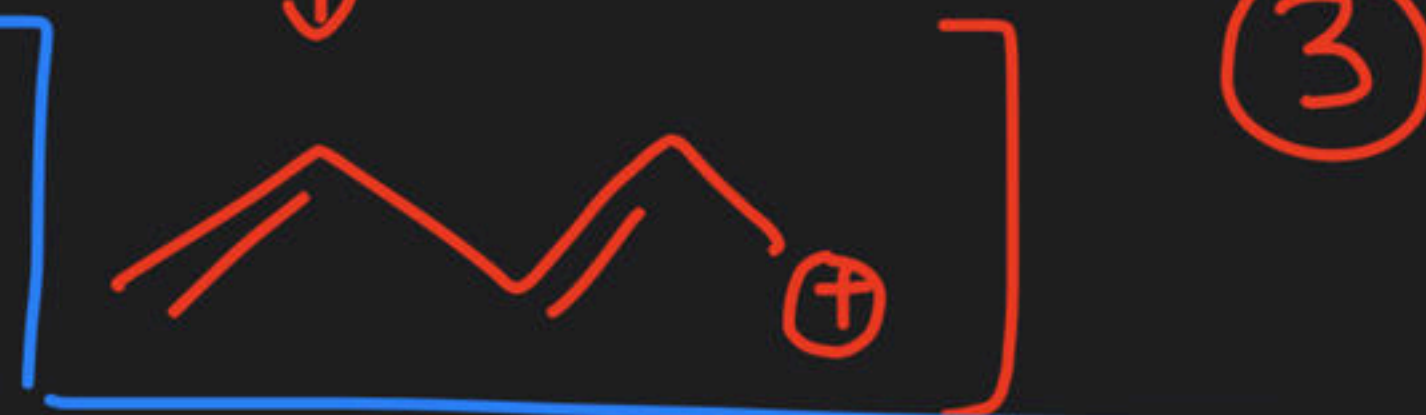


- (A) 1
- (B) 2
- (C) 3
- (D) 4

(11)



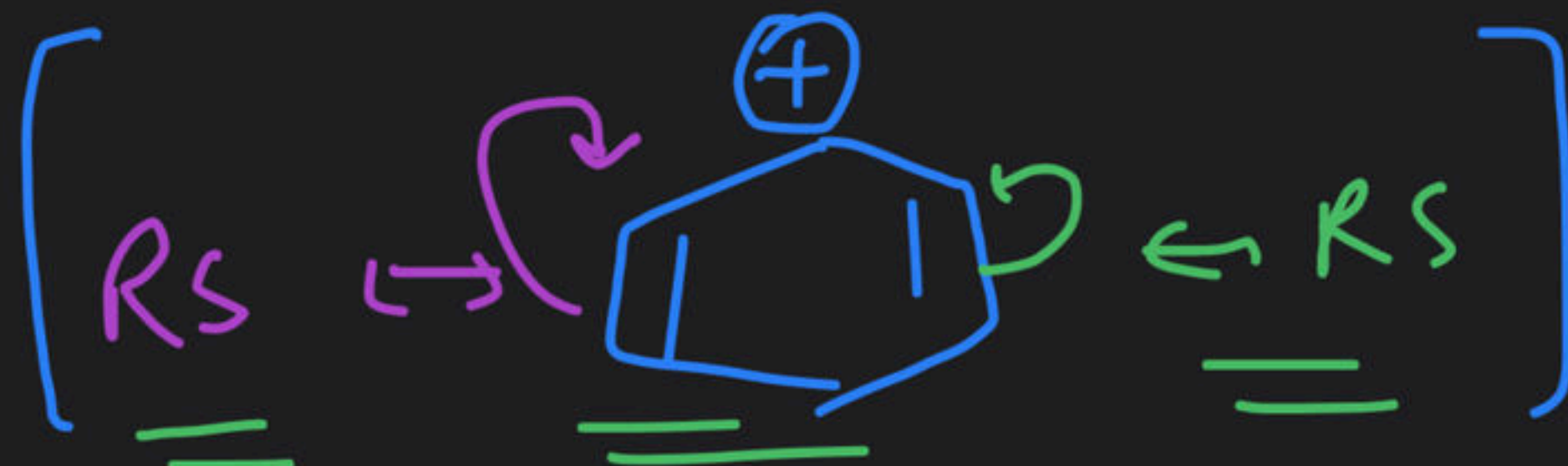
(12)



(13)



(14)



RS



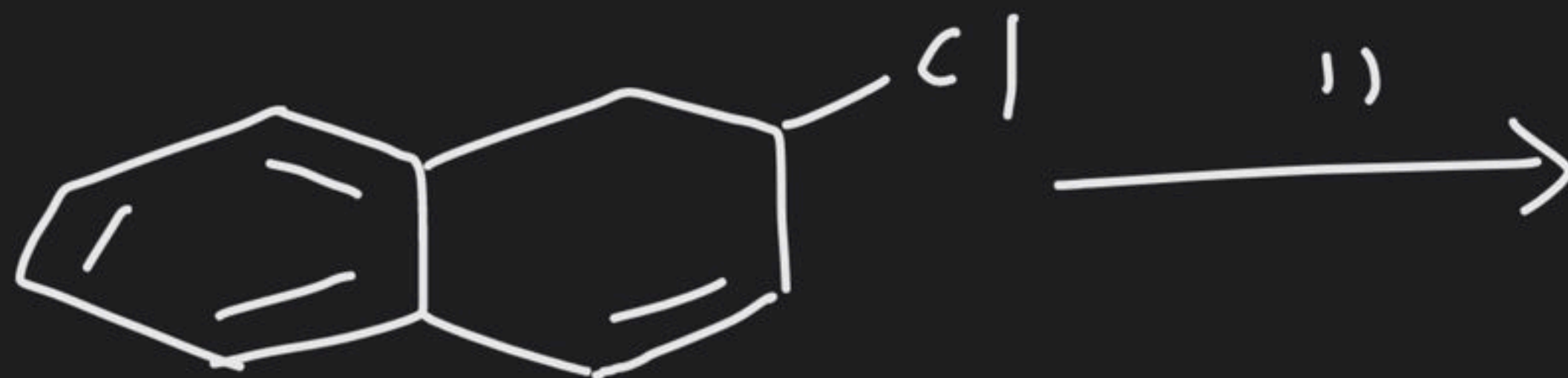
RS



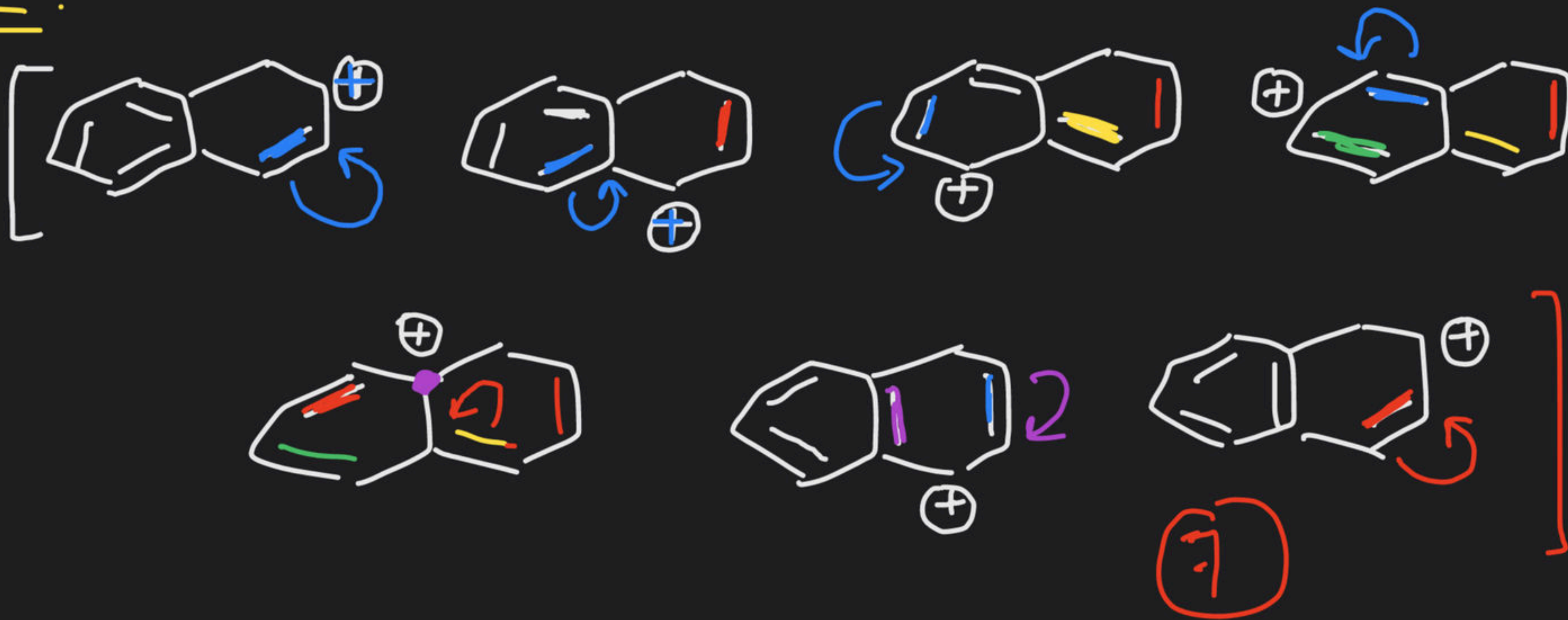
RS

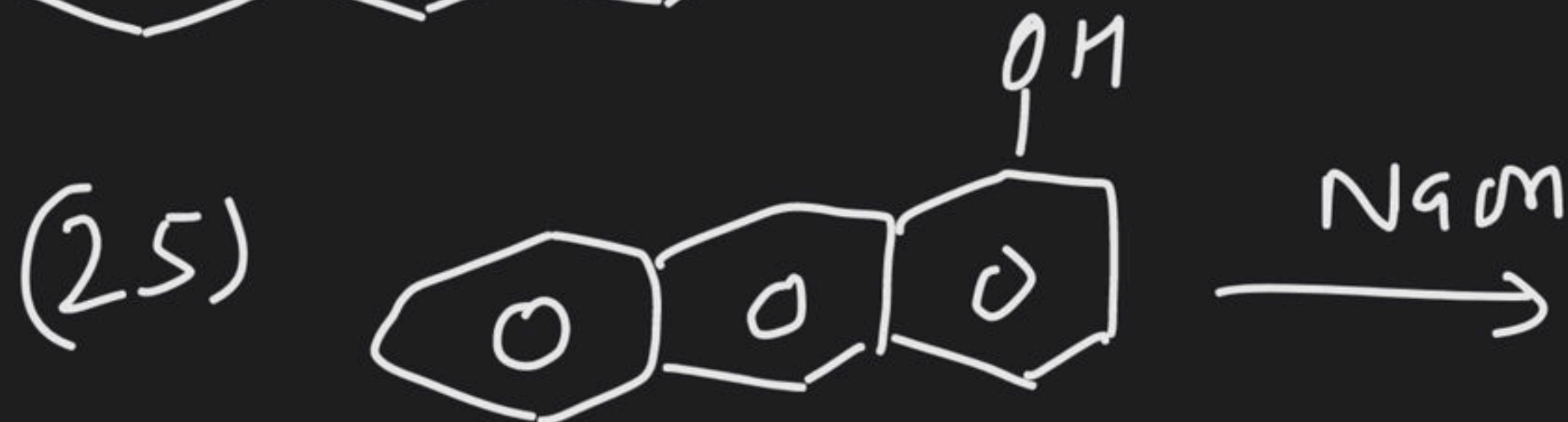
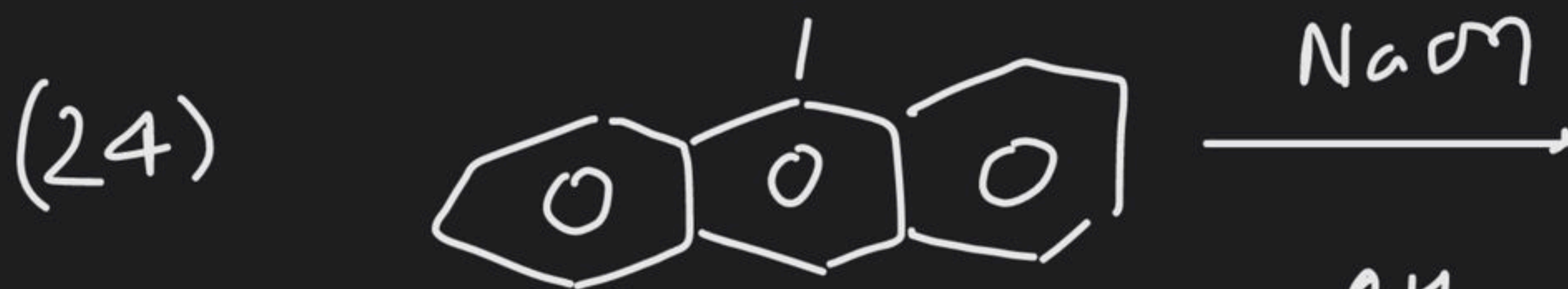
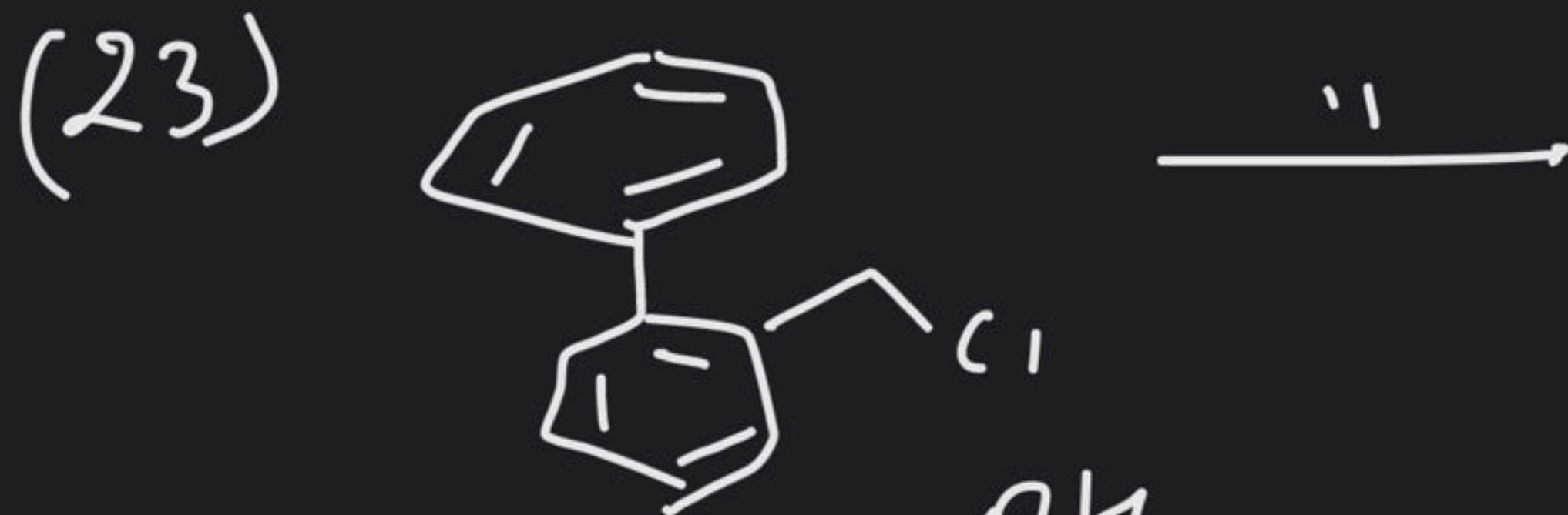
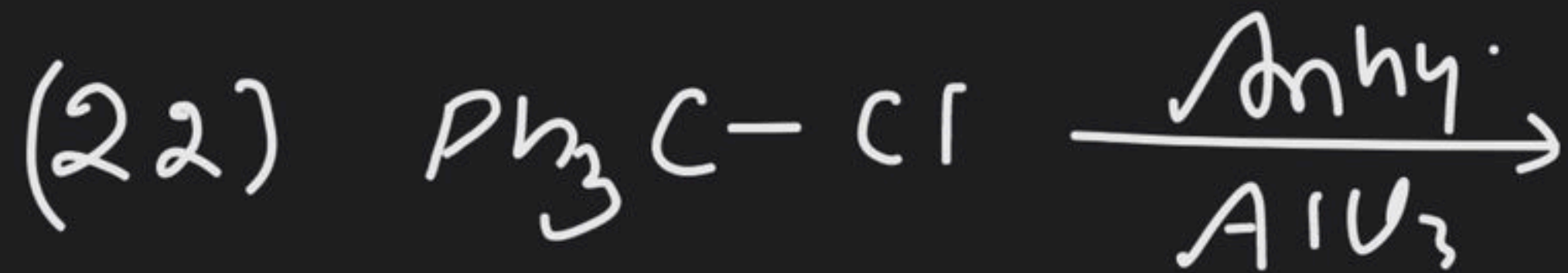
4

(15)



Soln:

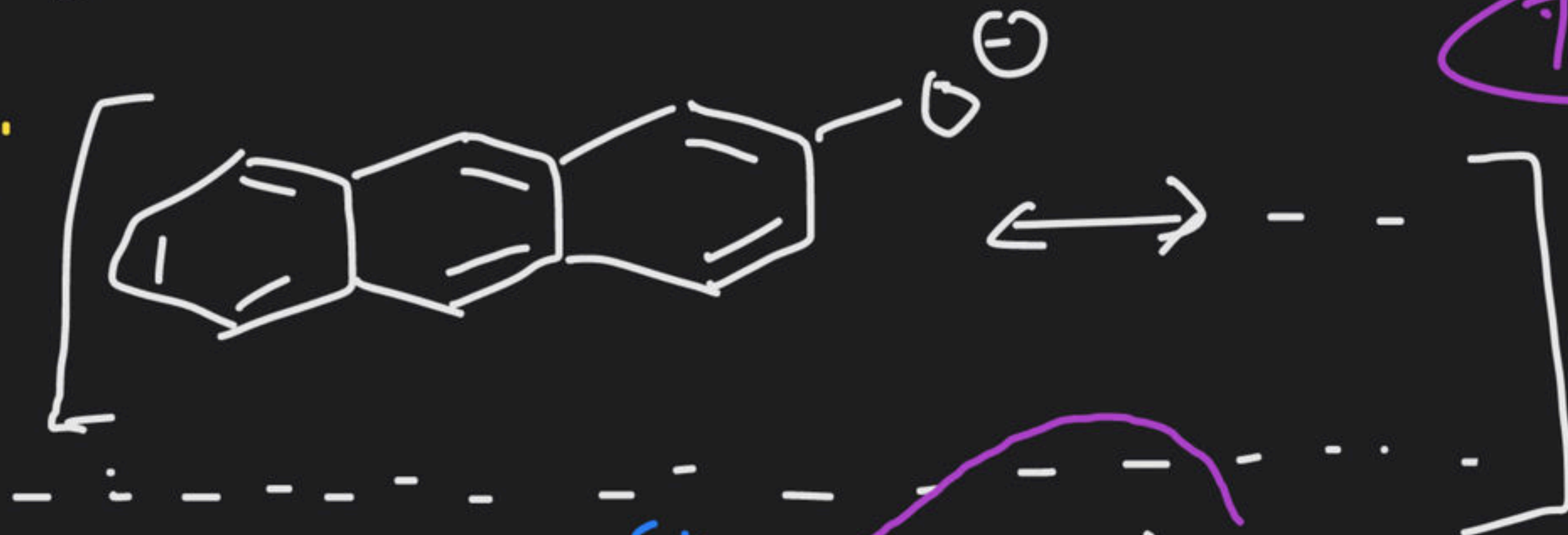




(26)

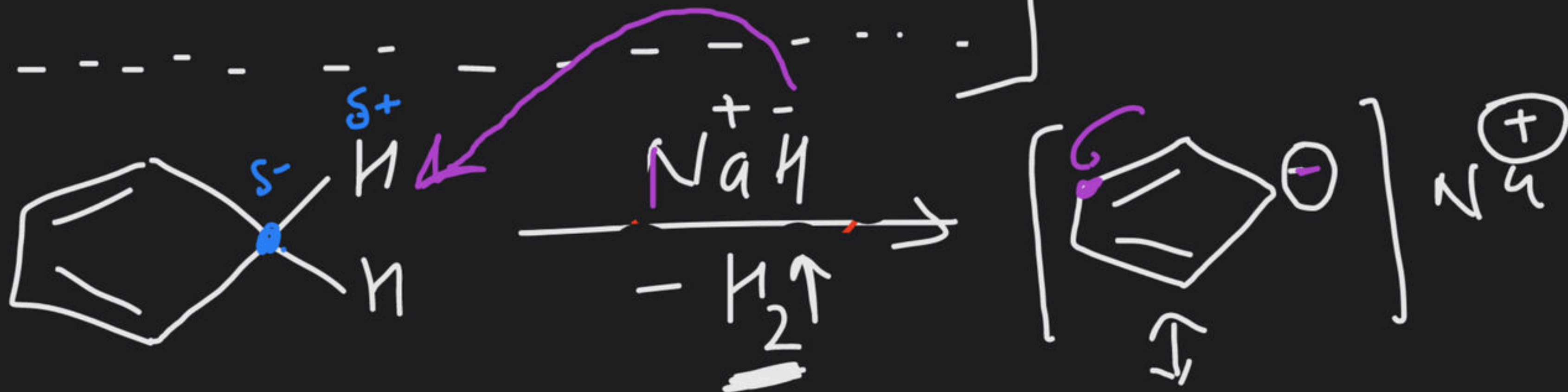


Soln.



1, 2, 3, 6, 8, 9, 10, 12
75 AER 100

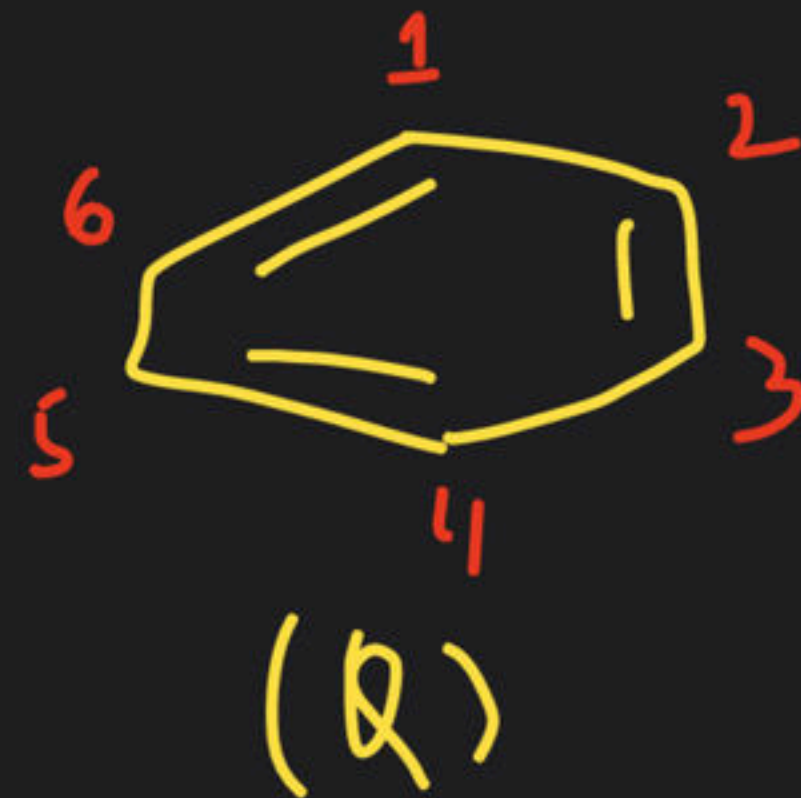
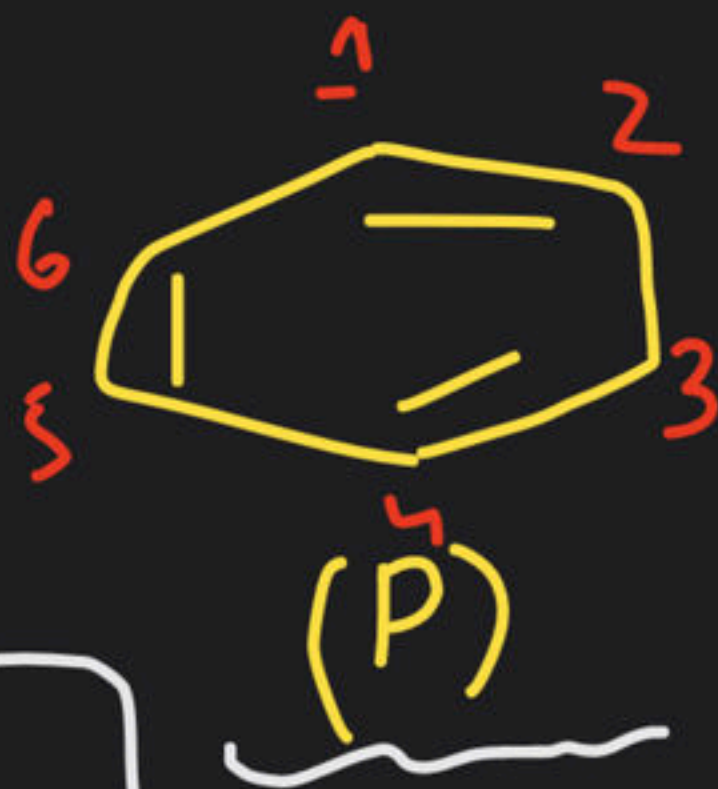
(27)



(#) Find Neutral Benzoid RS.



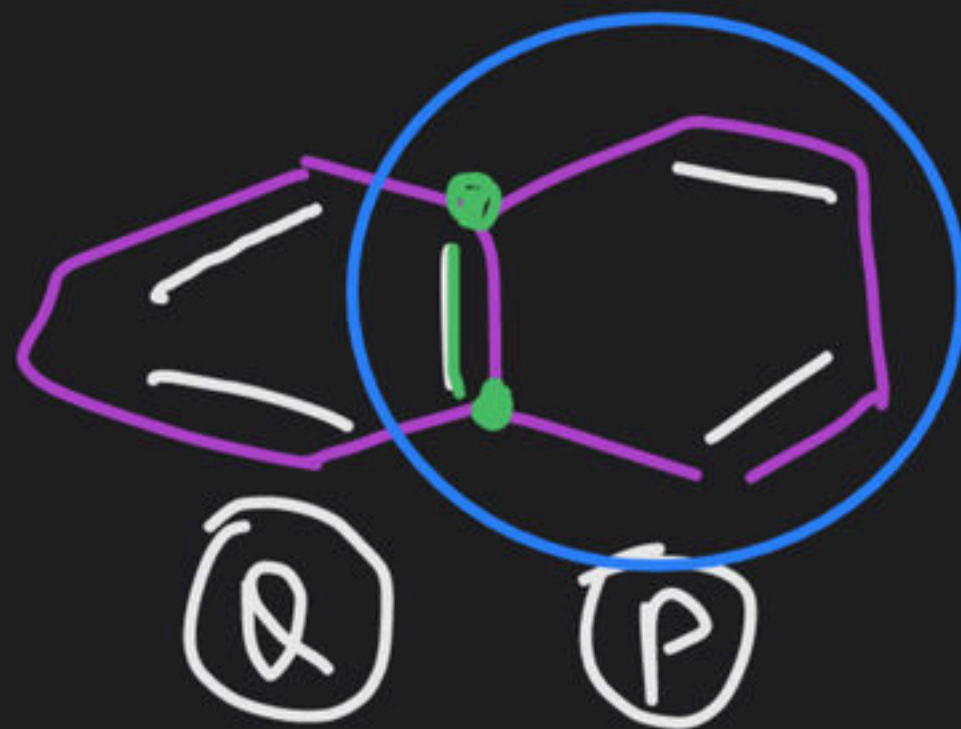
Ph-N



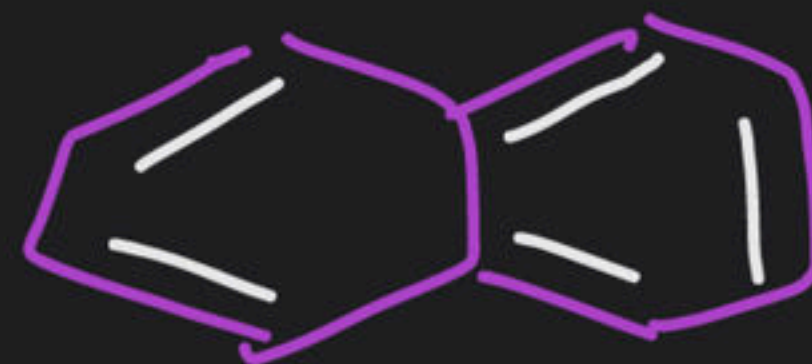
2



(RS)



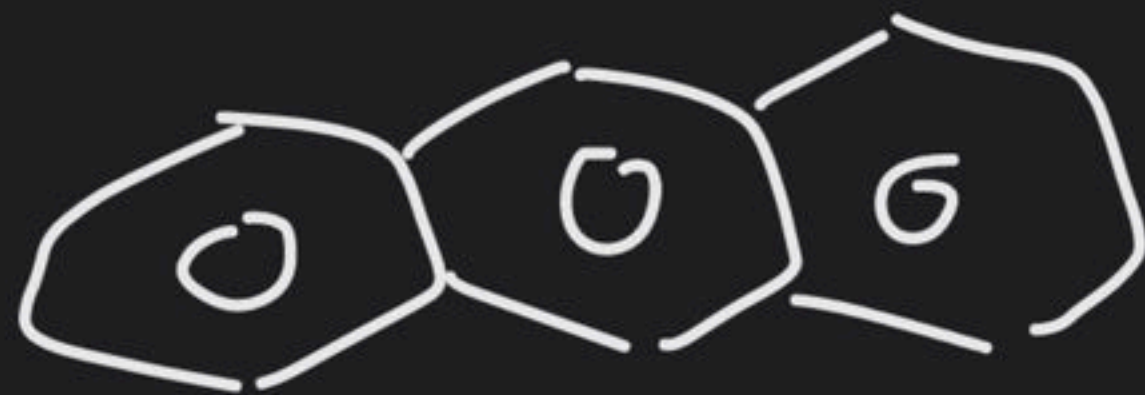
(RS)



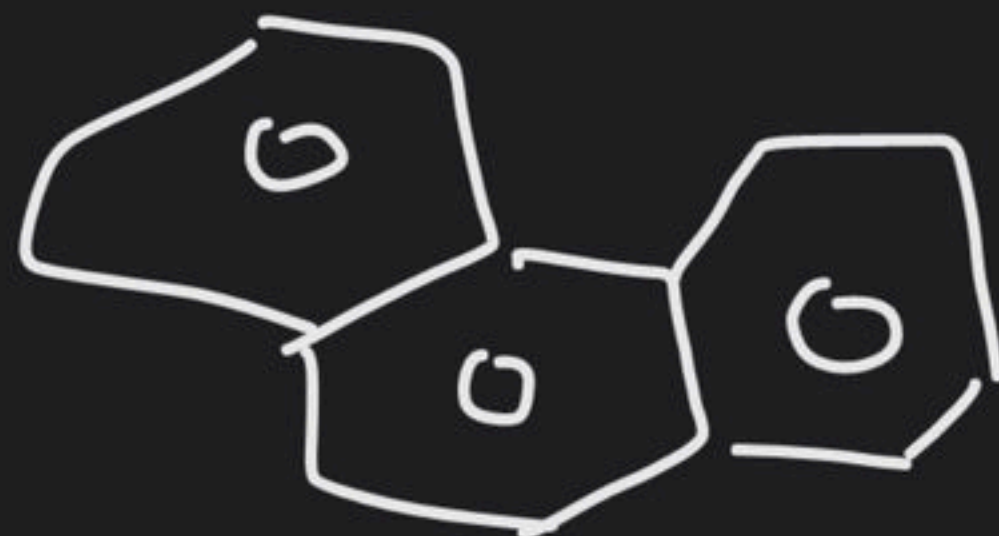
(RS)

3

(30) Anthracene



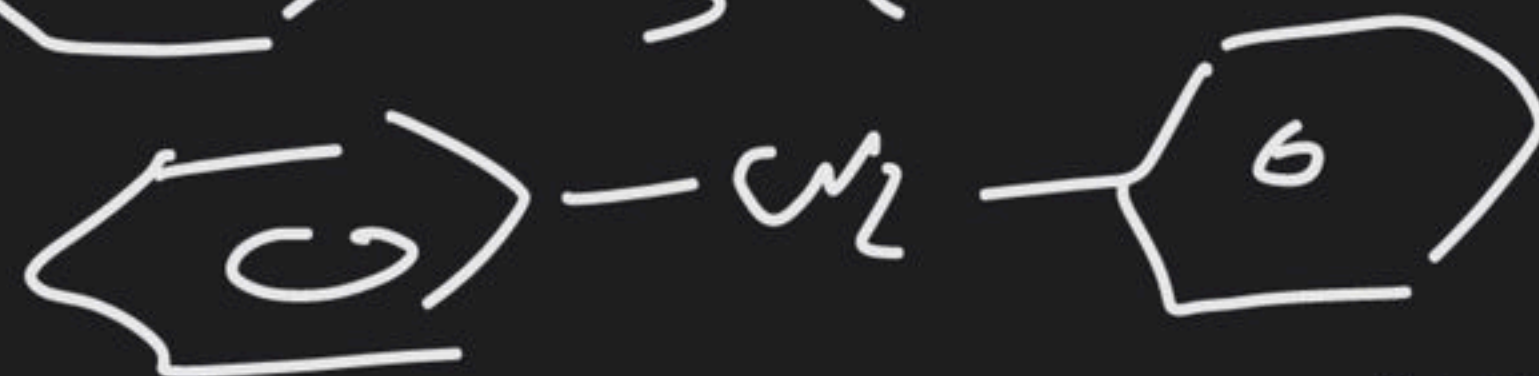
(31) phenanthrene



(32)  CH_3 ($\text{Ph}-\text{CH}_3$)

(Ph_2CH_2)

(33)



(Ph_3CH)

(34)

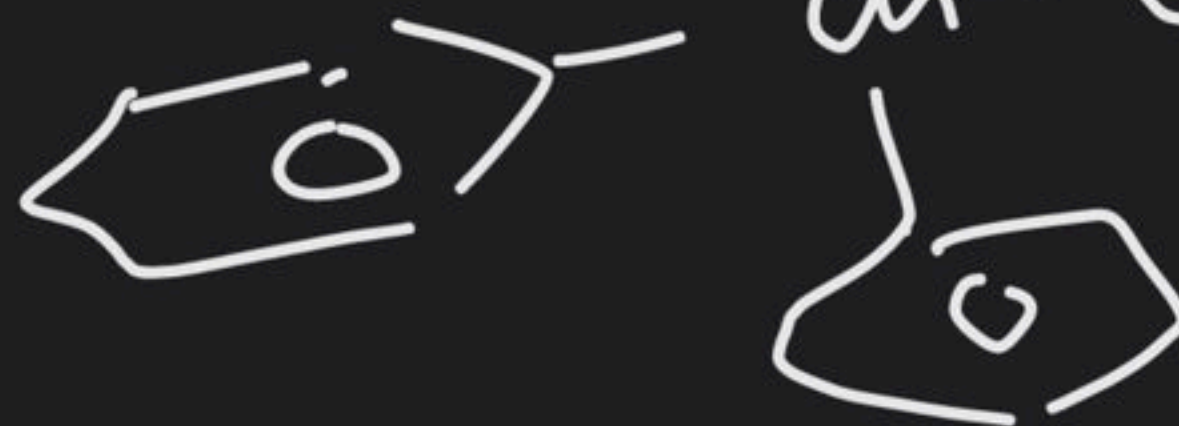


Diagram illustrating a molecule structure with four rings, each labeled with a value in parentheses:

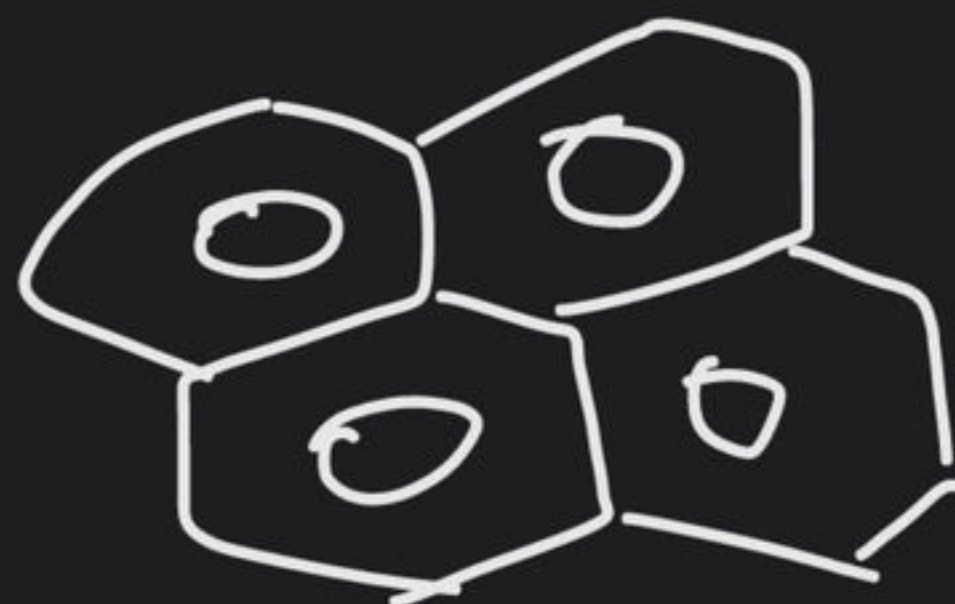
- Top-right ring: $2(p40)$
- Middle-right ring: $2(p40)$
- Bottom-right ring: $2(p40)$
- Leftmost ring: $2(r80)$ (underlined)

$$= 2^4 = 16$$

P P P P
 P Q P P
 P P Q P
 P P P Q
 P Q Q P
 P Q P Q
 P P Q Q
 P Q Q Q

[illegible]

(36)

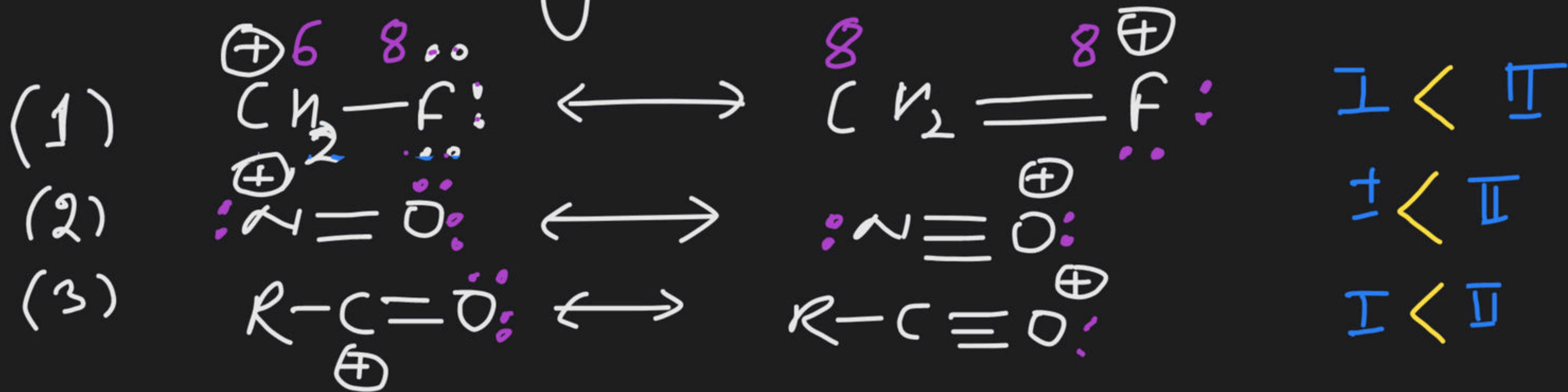


(גב)



(#) Rules for stability (Contribution) of RS

Rule-1: RS having complete octet is more Contributing.



Rule-2 RS having Either higher no. of Covalent bond or less charge are more Contributing

(4)



Complete octet

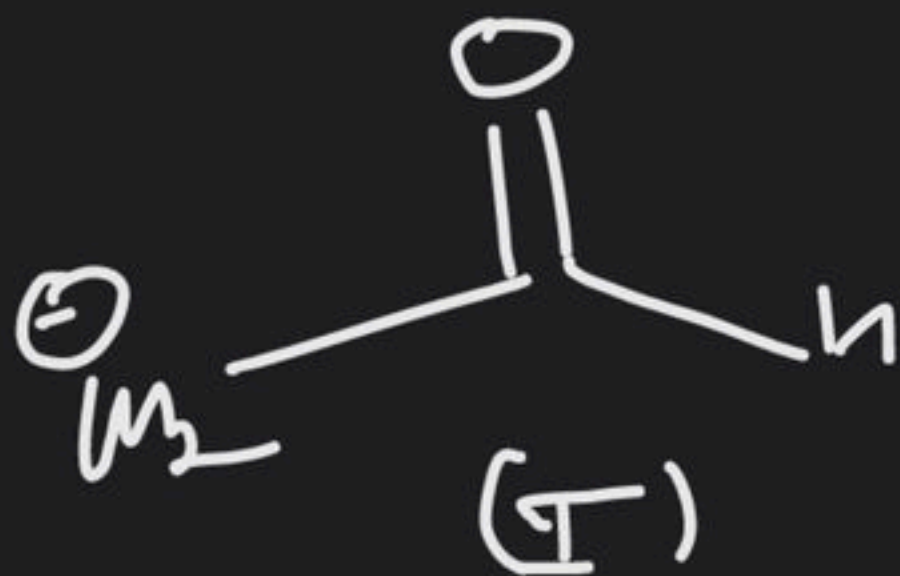


Complete octet

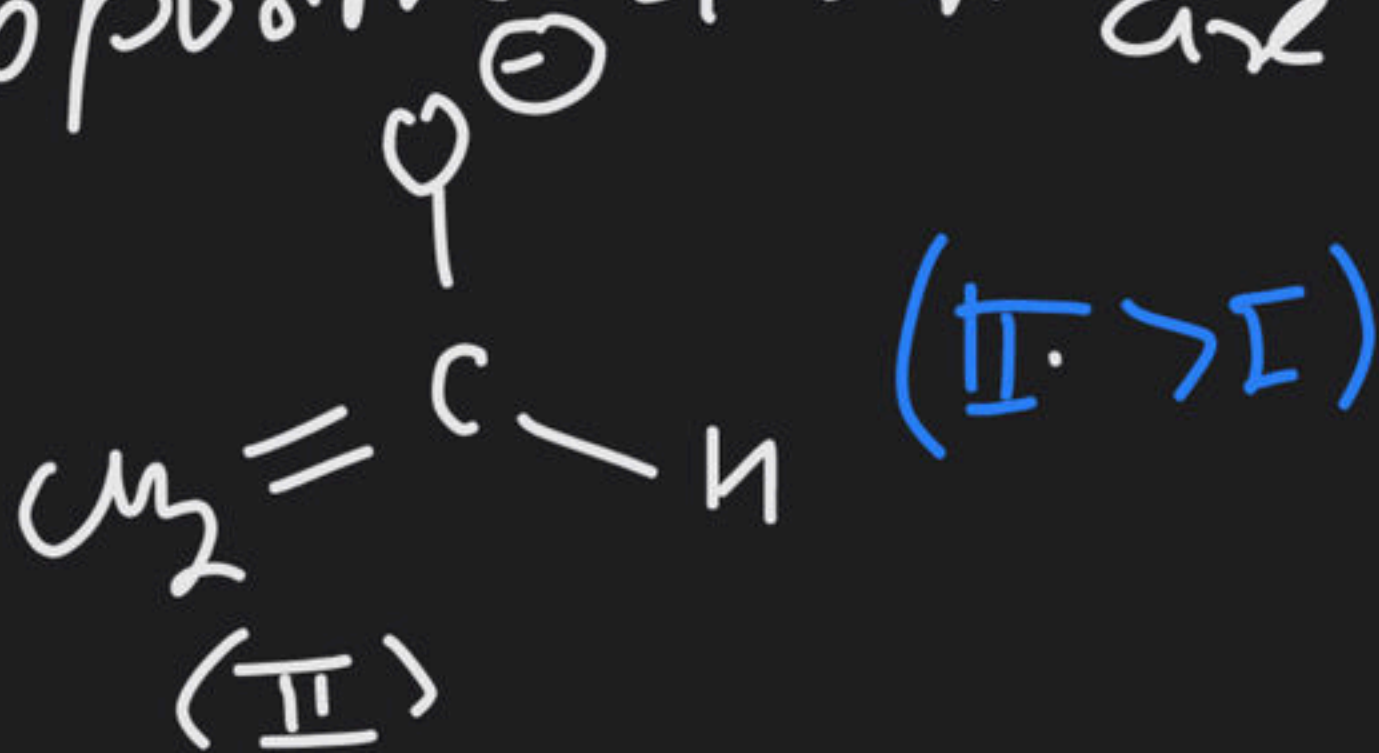
(I > II)

Rule-3! RS having (-) charge on Electronegative atom & (+) charge on electropositive atom are more Contributing

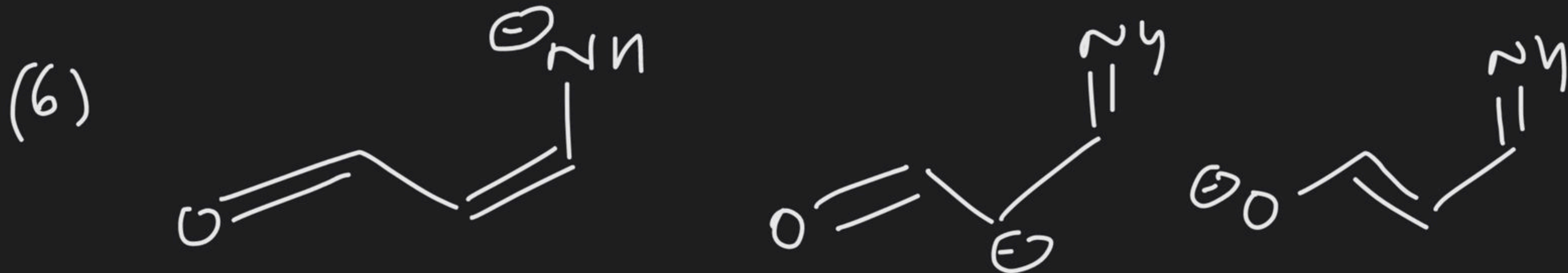
(5)



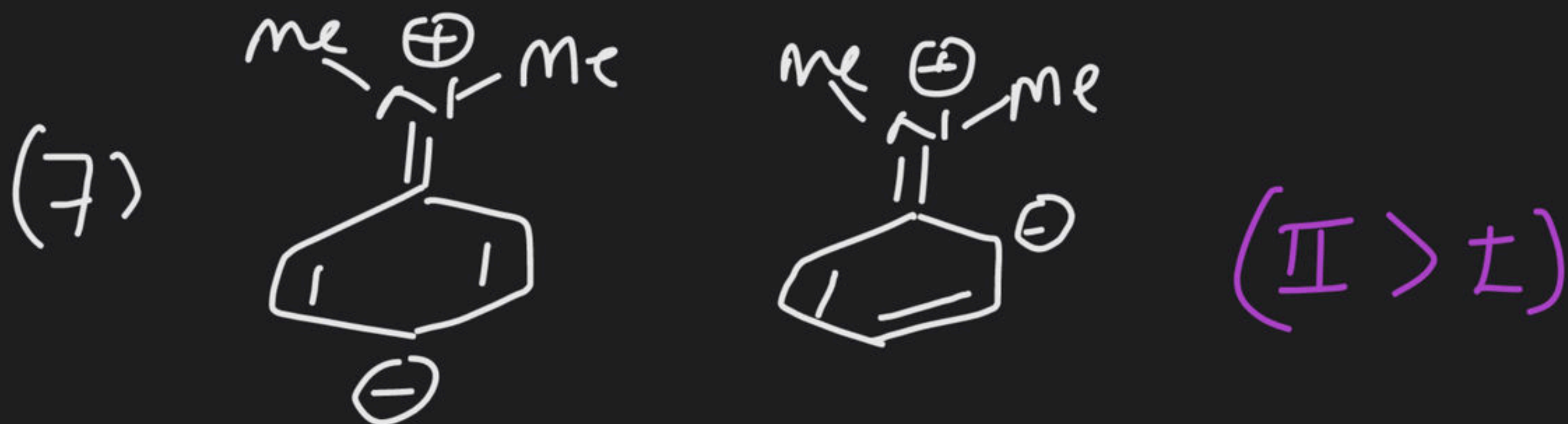
(I)



(II > I)

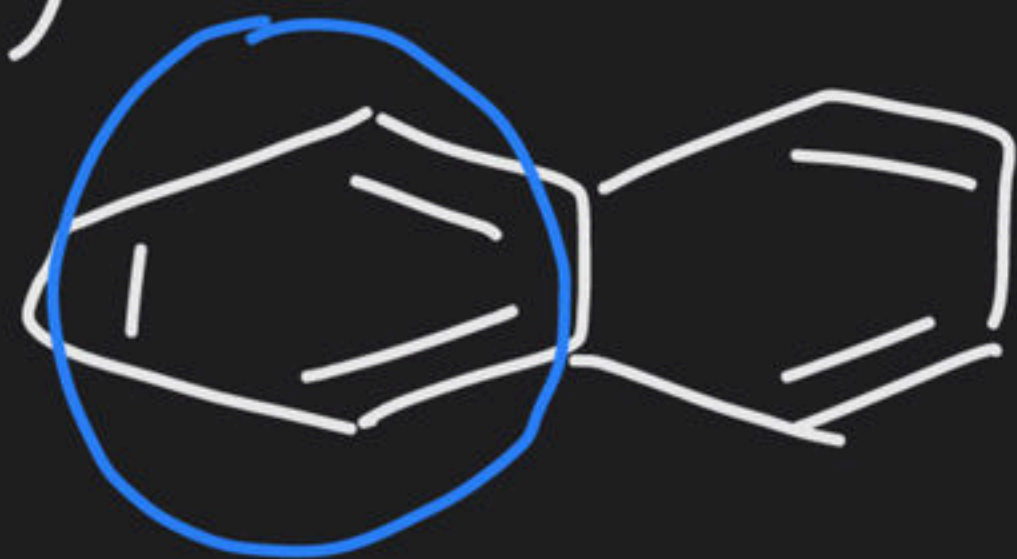


Rule-4: RS having unlike charges closer & like charges away are more contributing.

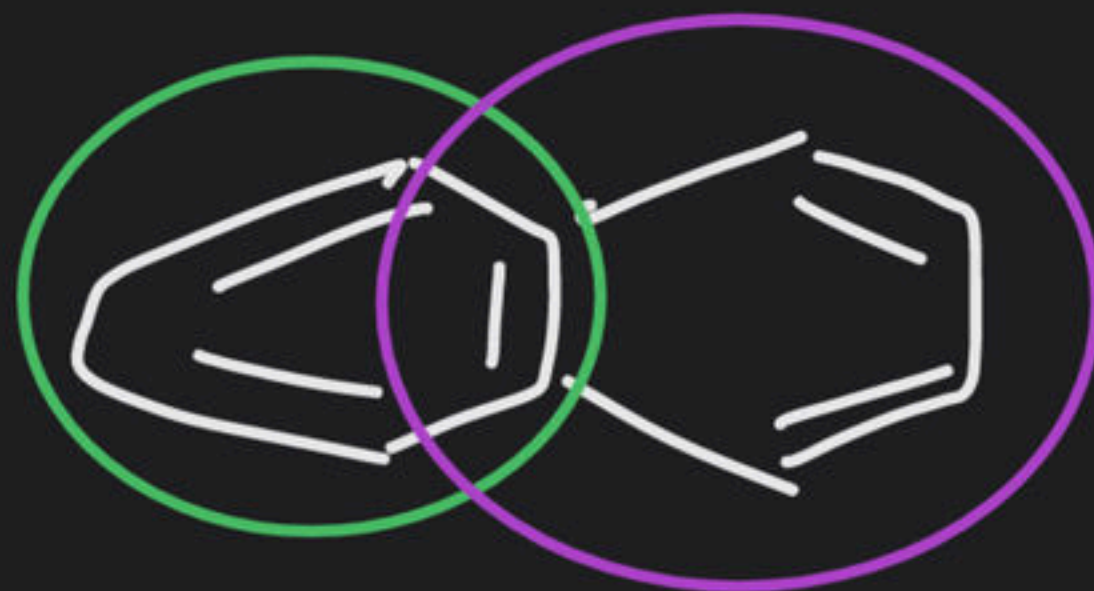


Rule-5 :: RS having higher No. of Benzoid segments
are more Contributing..

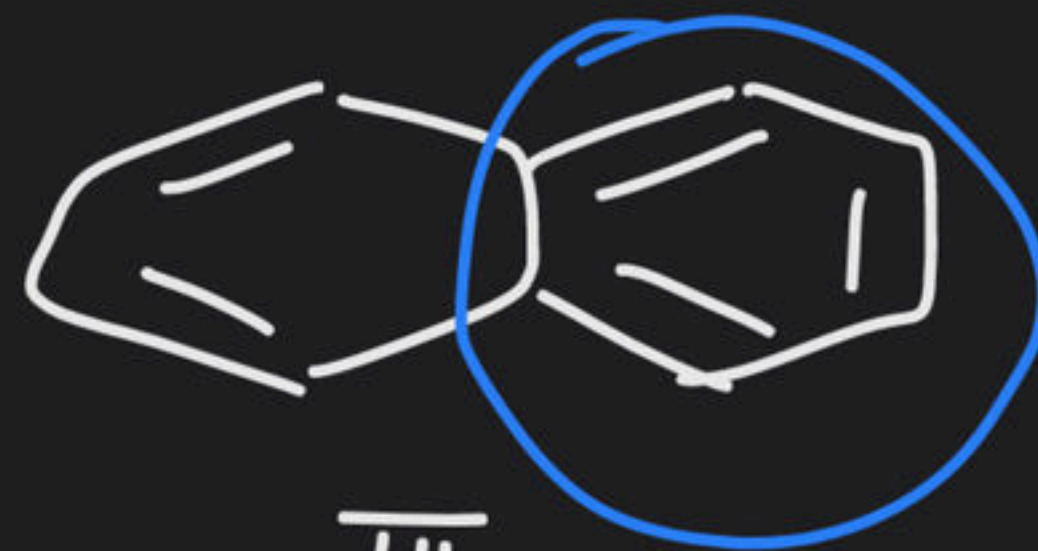
(8)



I



II



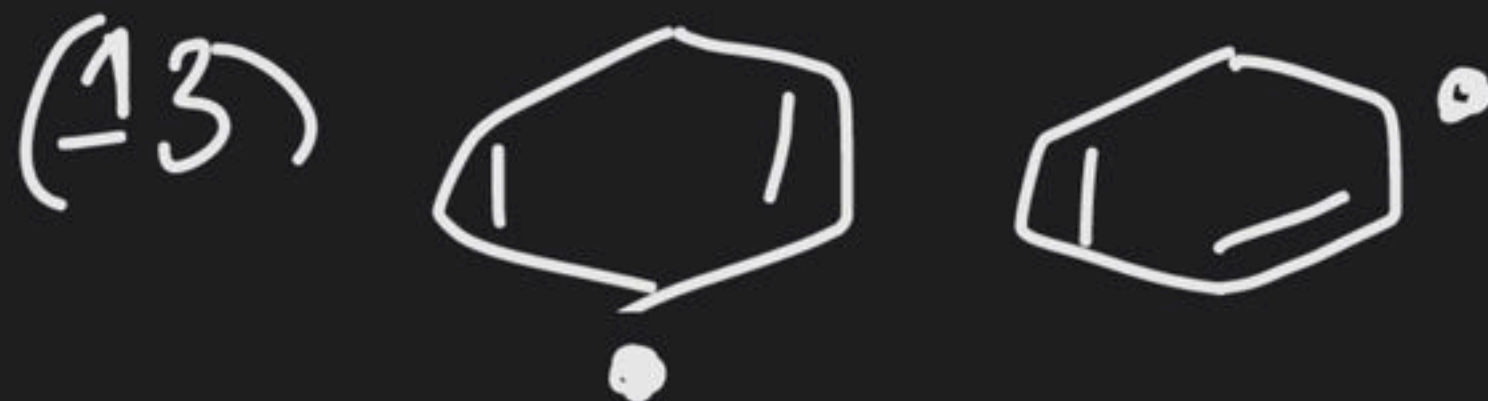
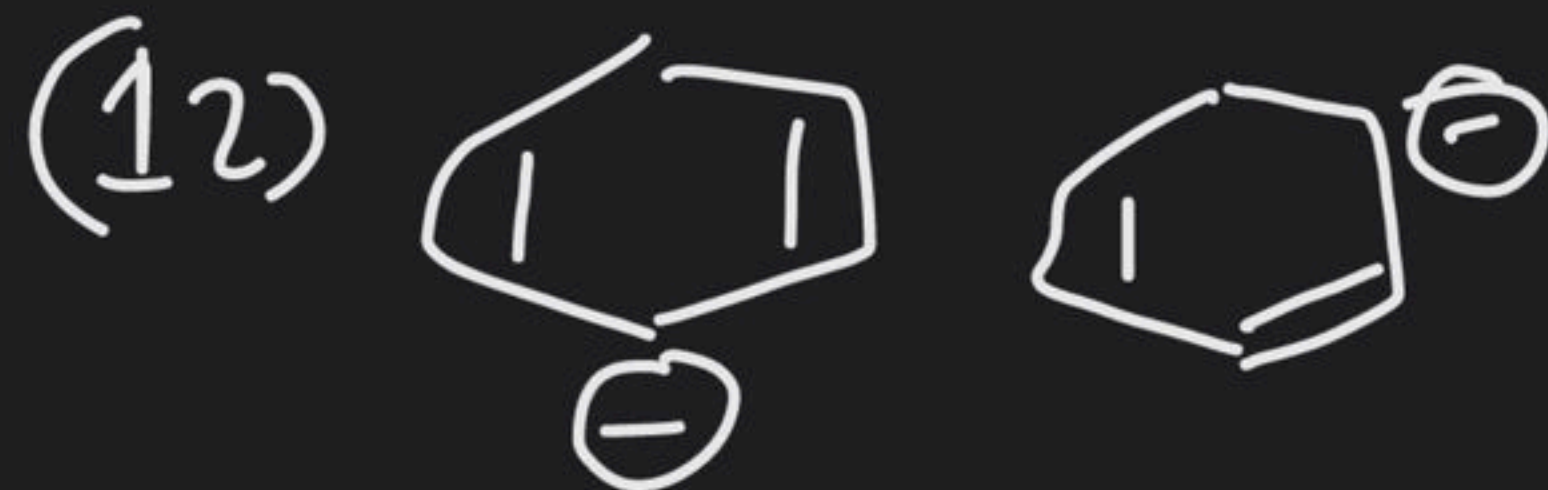
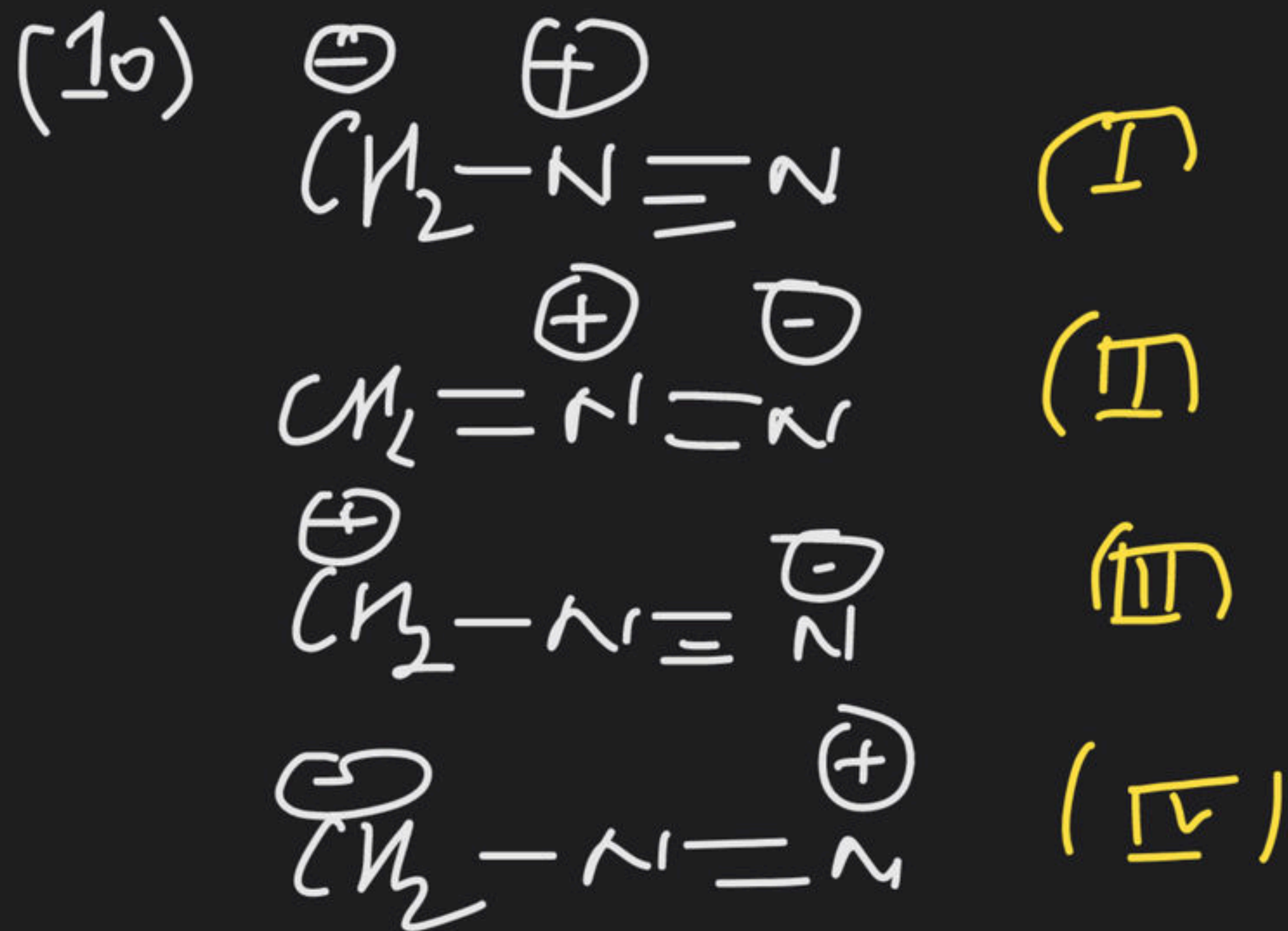
III



(9)



(I = II)



(14)

