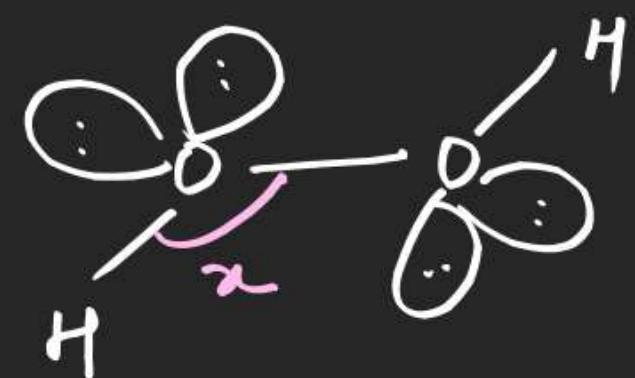


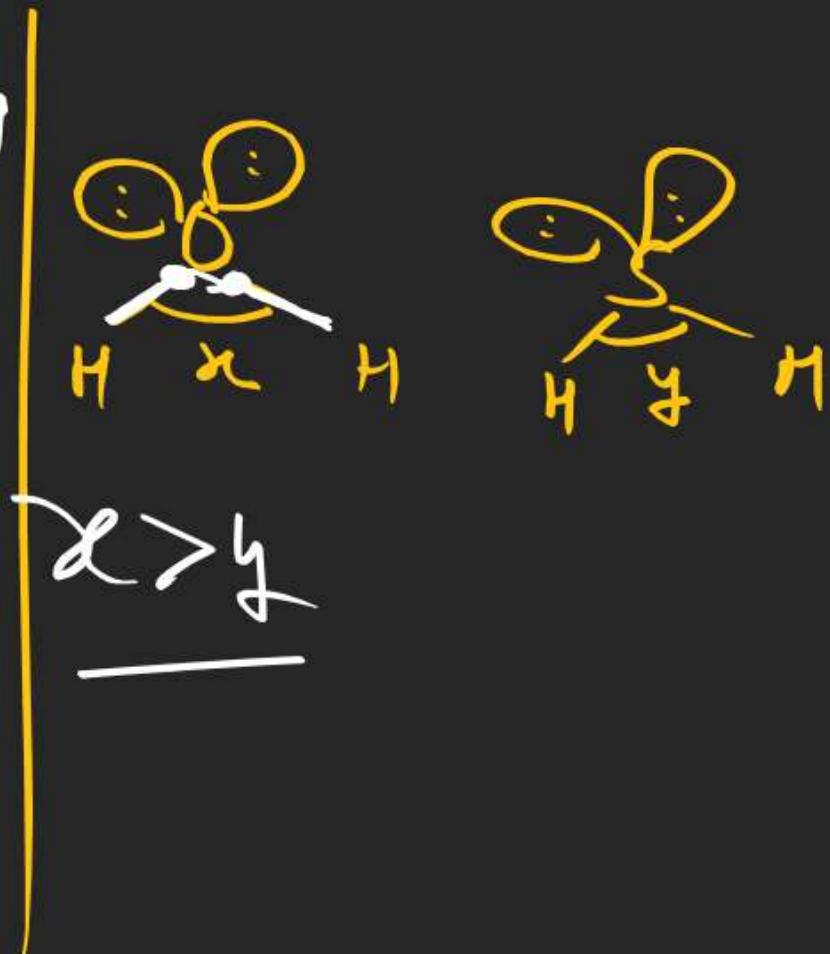
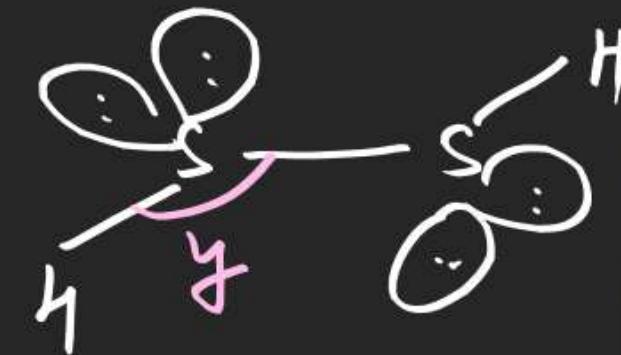
O
S
Se
Te
↓ down the group ↓

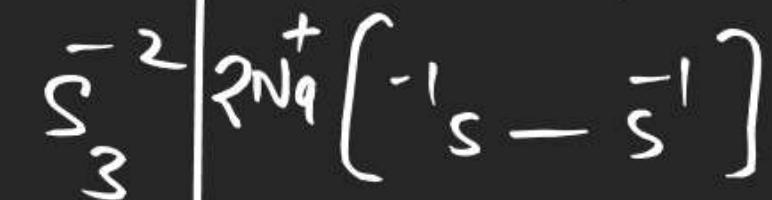
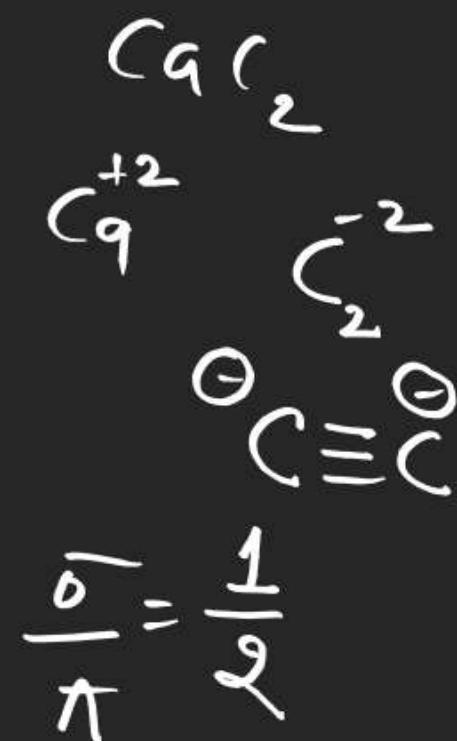
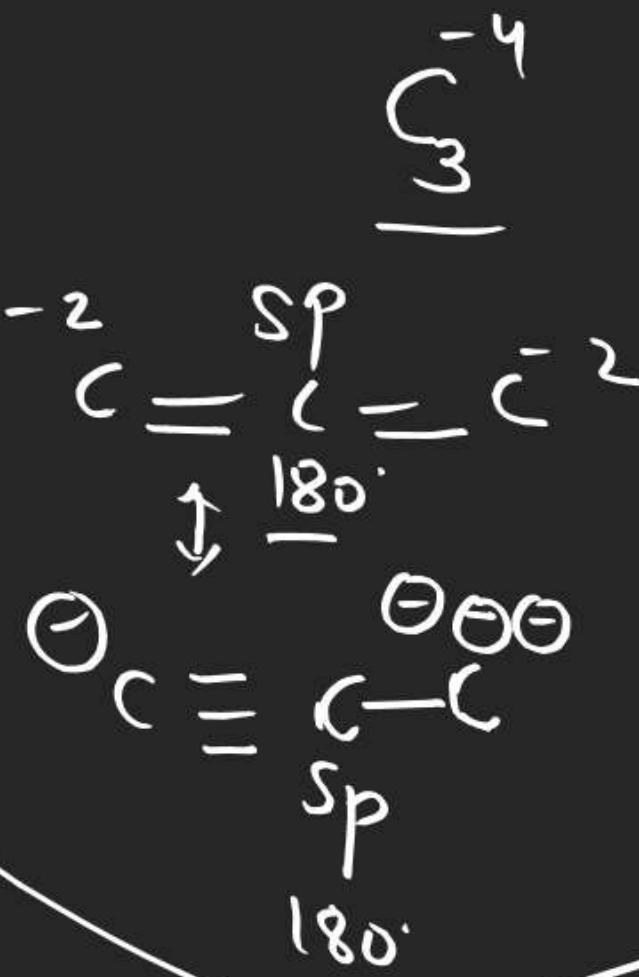
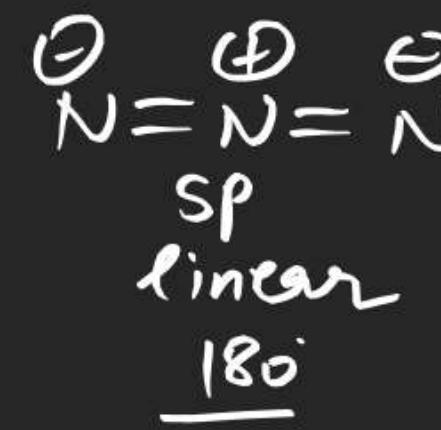
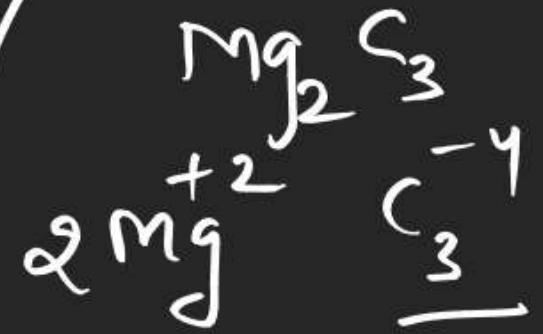
B.A \propto E.N of C.A

B.A \propto $\frac{1}{\text{E.N of S.A}}$

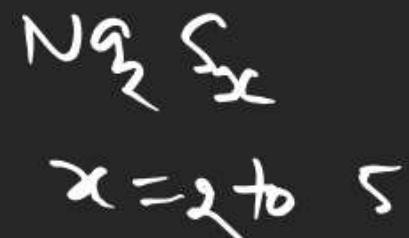


B.A $x > y$





Poly sulfide series



$N^q \Sigma_x$

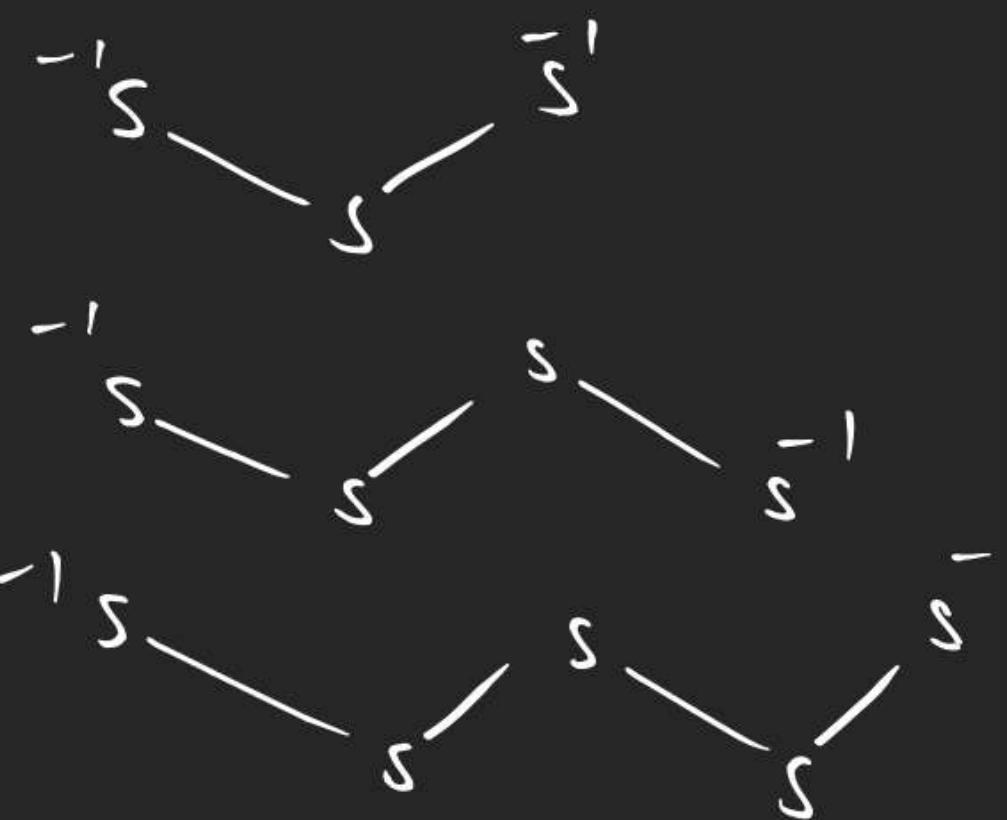
$x = 2 \text{ to } 5$

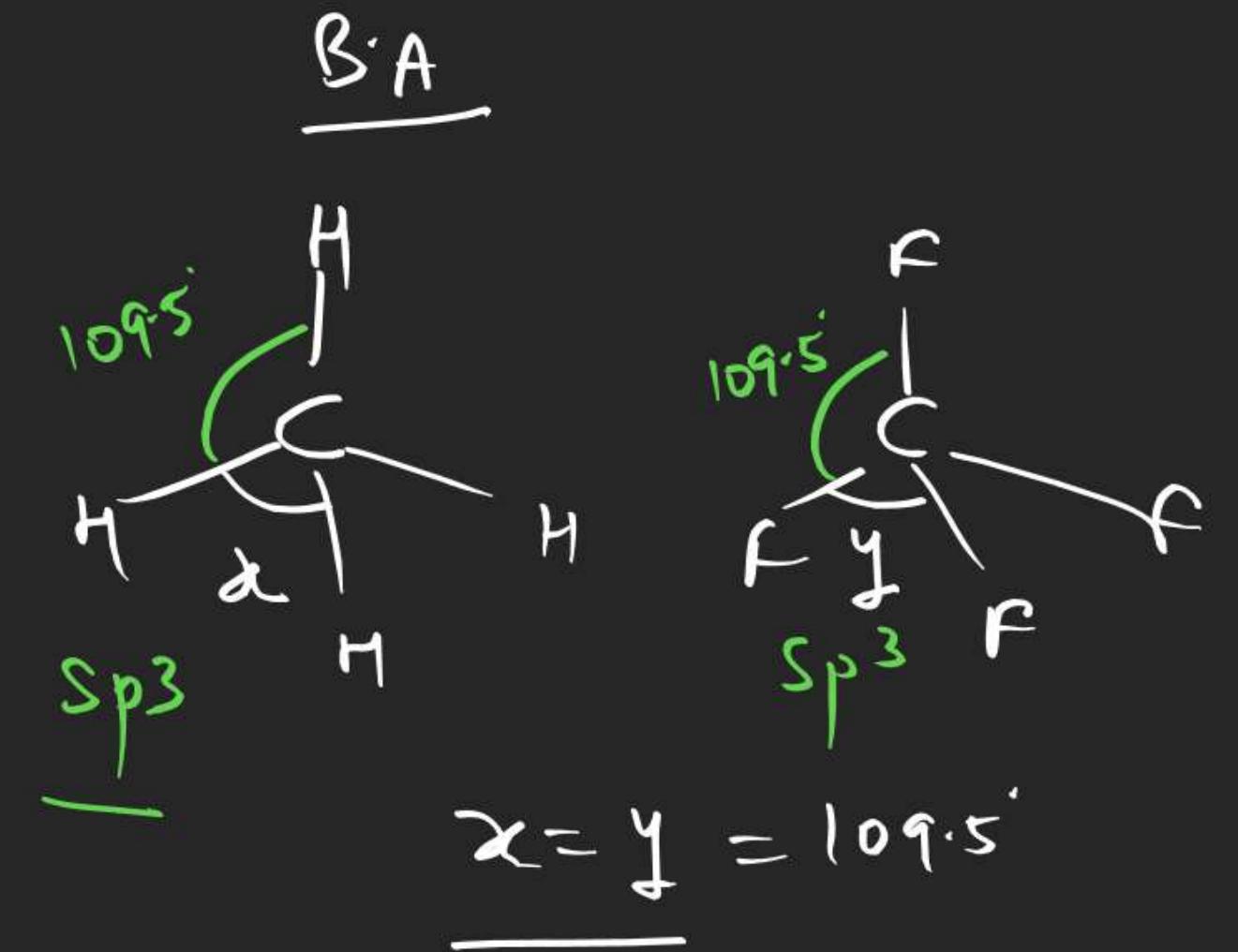
$Mg_2 C_3$

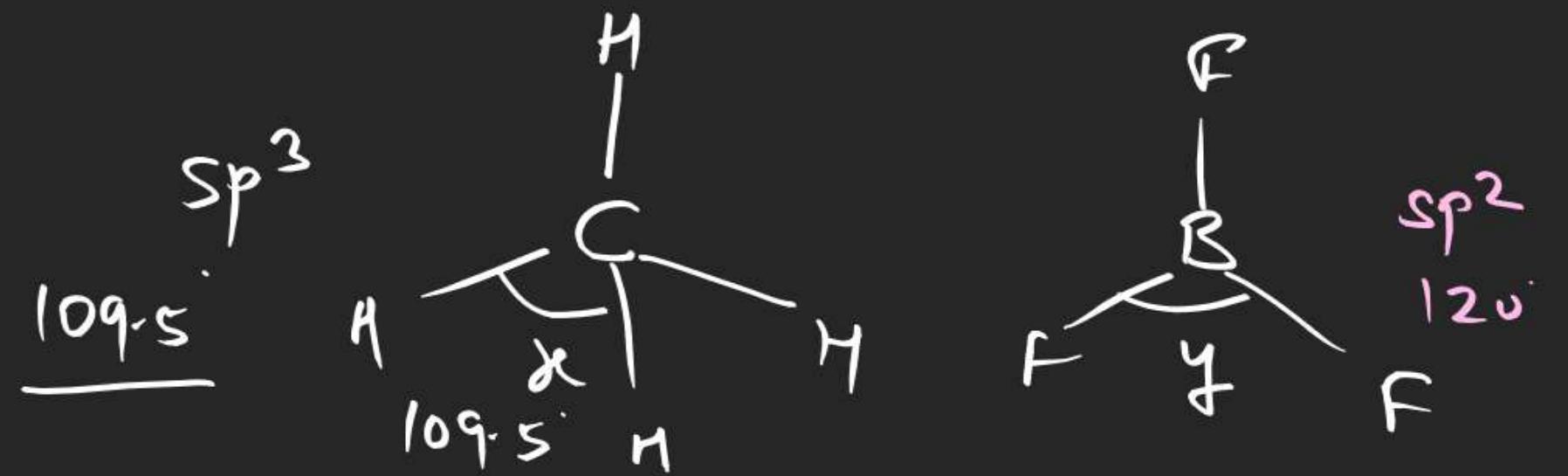
$2Mg^{+2} C_3^{-4}$

$C^{-2} - C^{-2} - C^{-2}$

$-1s - s^-$

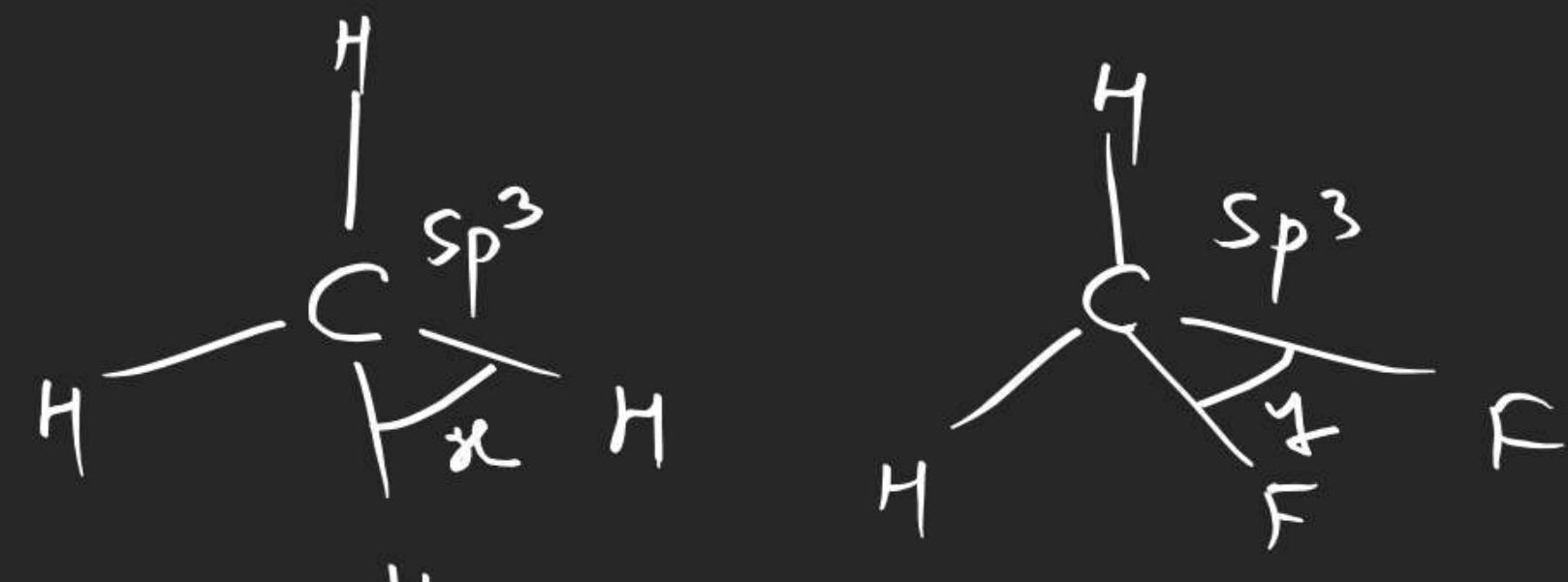






$\beta \cdot A$

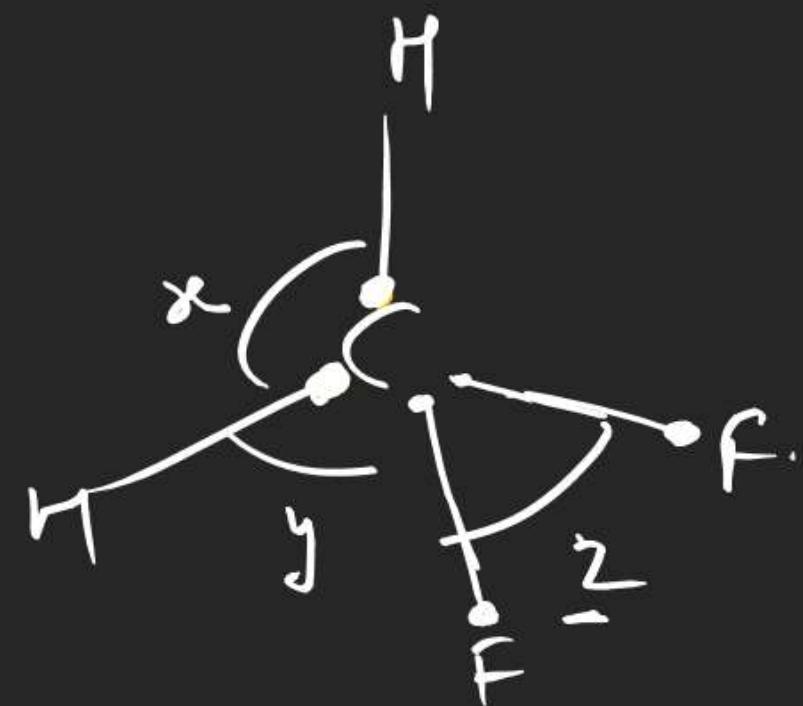
$\alpha \angle \gamma$



Perfect tetrahedral
regular tetrahedral

$\xrightarrow{x > y}$

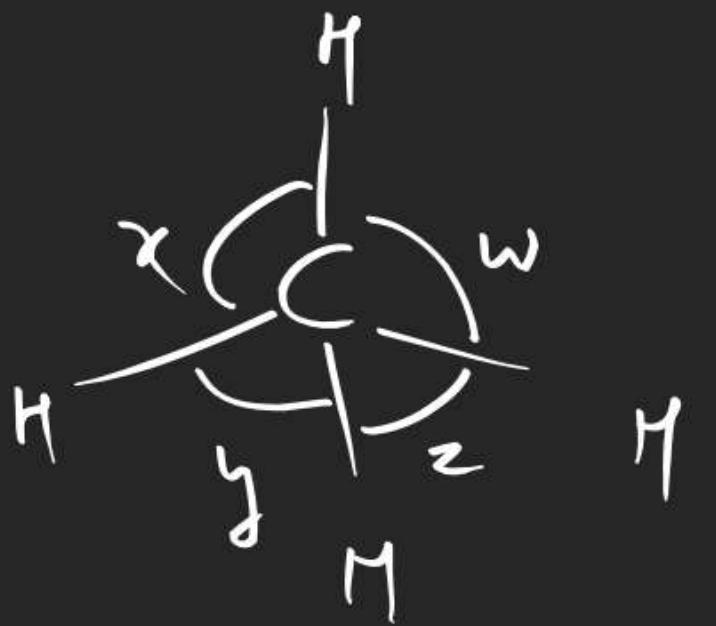
not regular

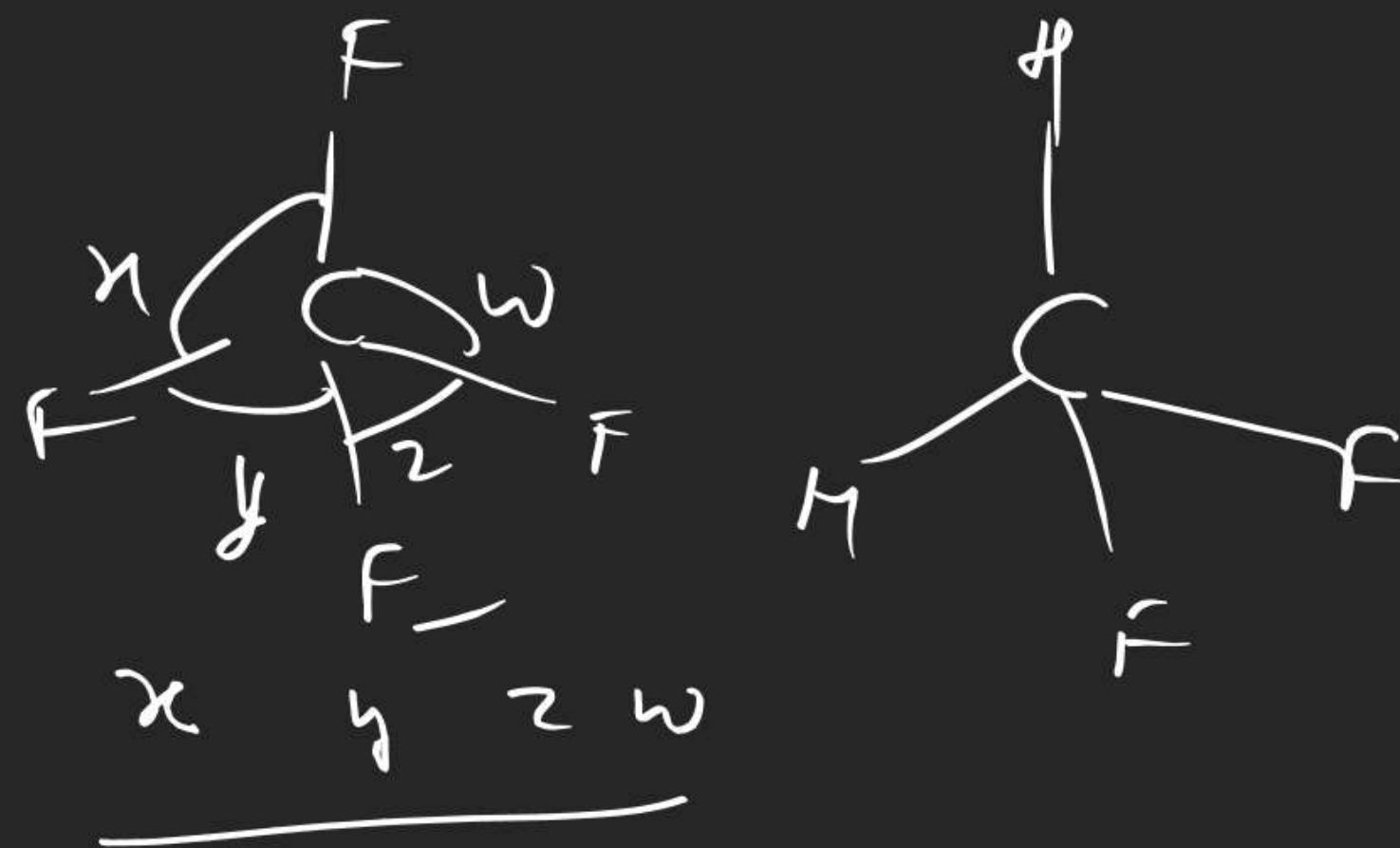


Order of B.A



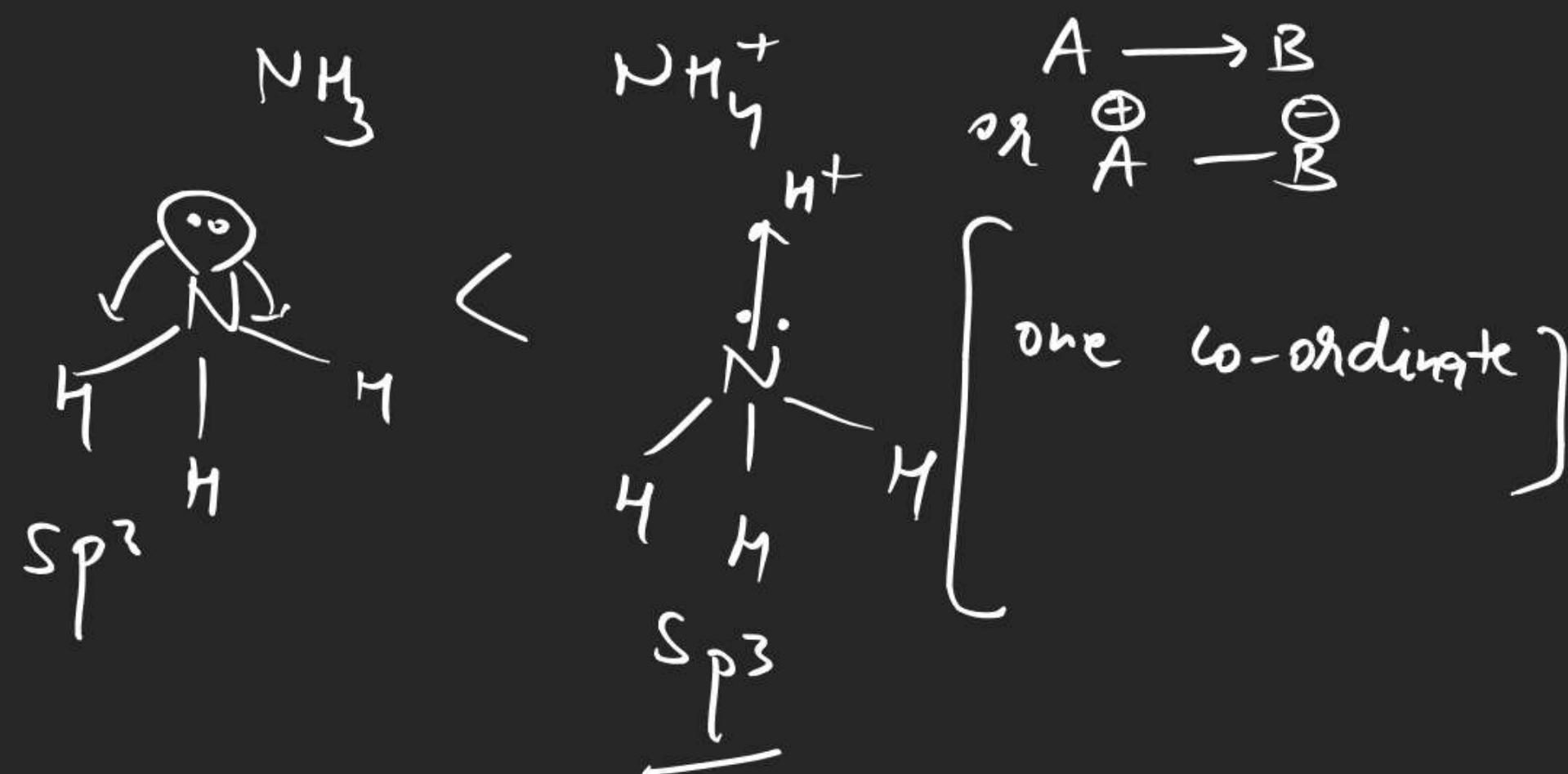
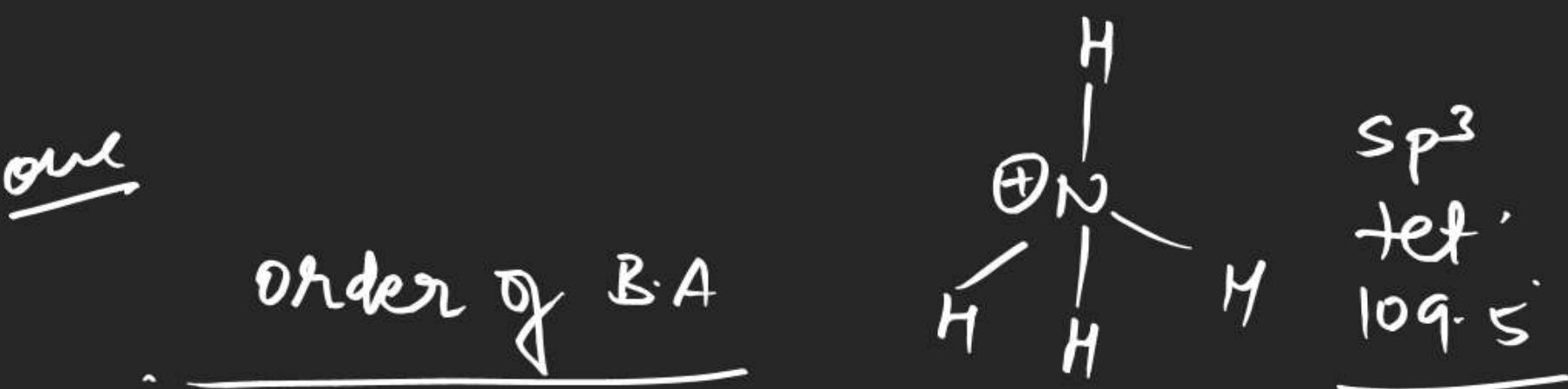
not regular tetrahedral

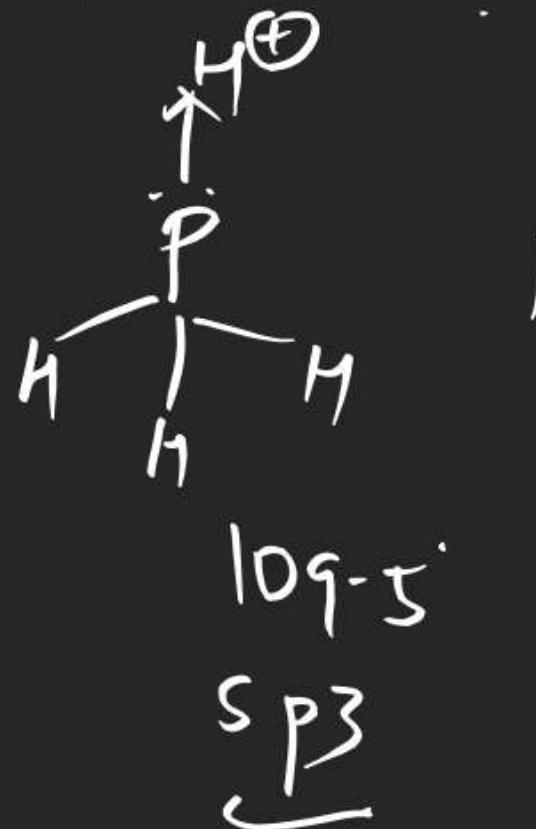
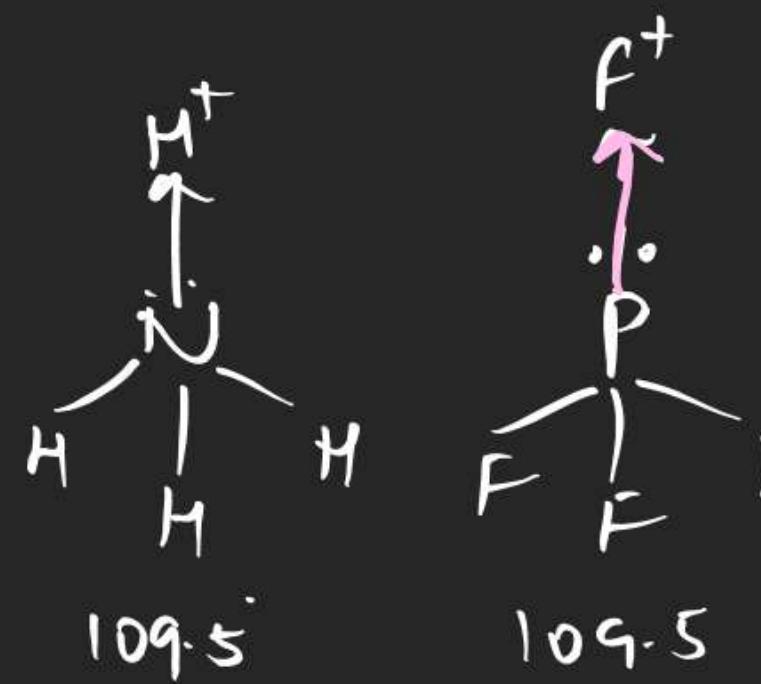




Which of the following geometry
is not a perfect tetrahedral/regular tetrahedral

- ① CF_4 ② CH_4 ③ CHF_3 ④ all are
perfect





Correct order of BA

(a) $\text{NH}_4^+ > \text{PF}_5^+$ (Ans $\text{NH}_4^+ = \text{PF}_5^+$)

(b) $\text{PH}_3^+ > \text{PF}_5^+$ (Ans $\text{PH}_3^+ = \text{PF}_5^+$)

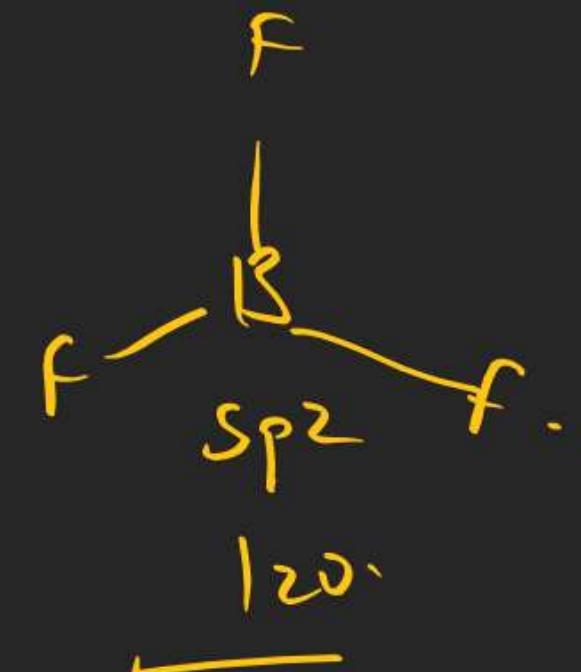
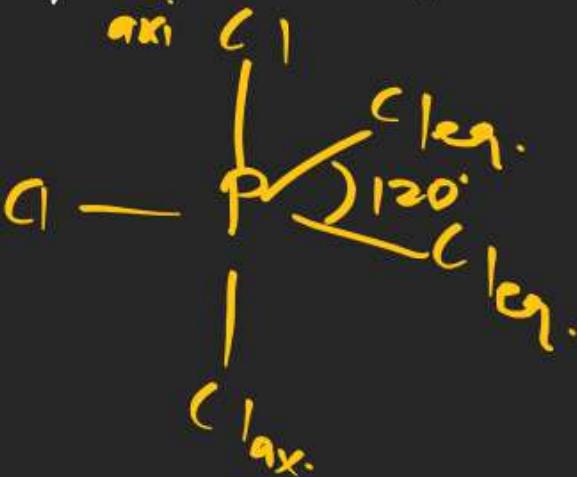
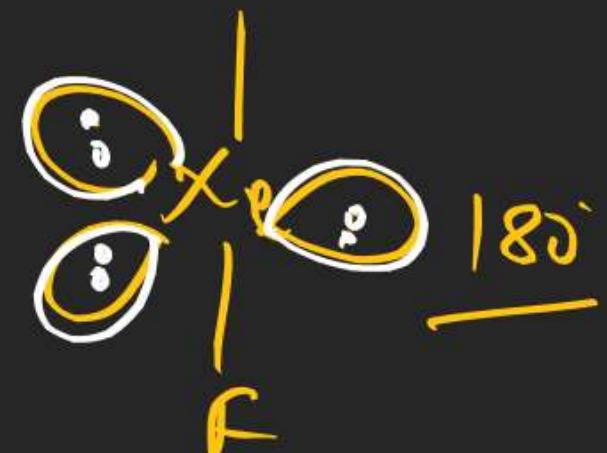
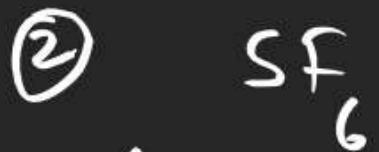
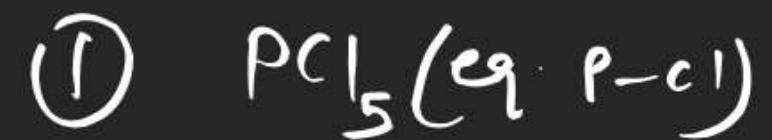
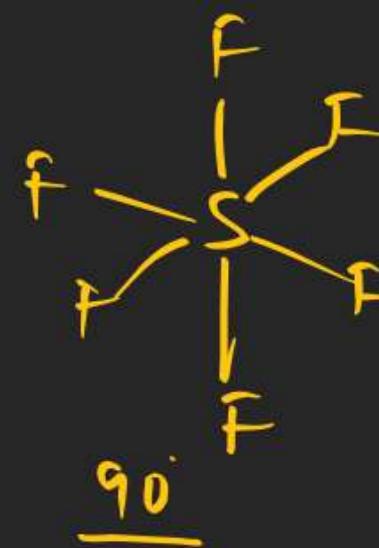
(c) $\text{I}_3^0 > \text{I}_3^+$

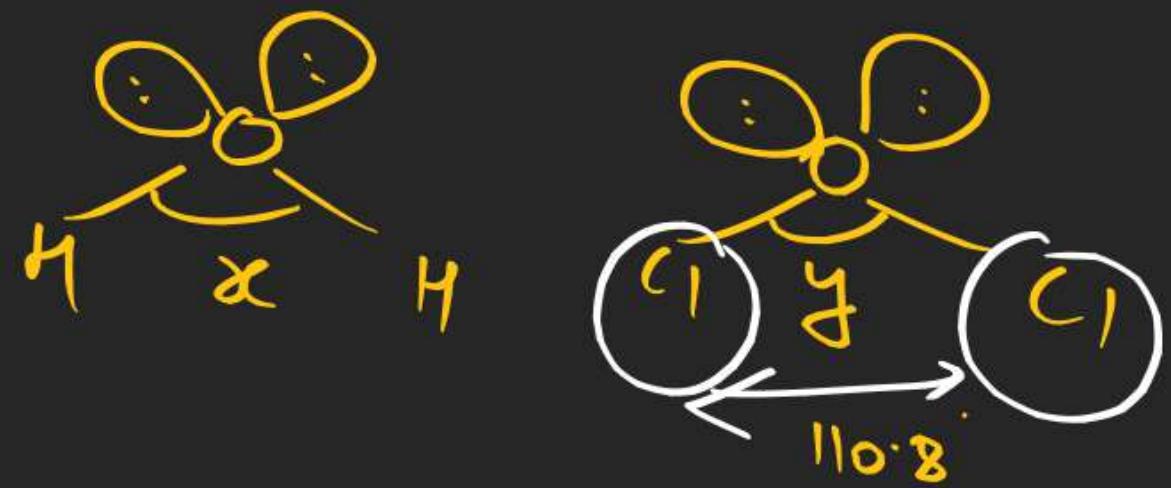
(d) none of these



I
 $\text{Sp}^3\text{d}, \frac{180}{<109.5^\circ}$

Ques Which of the following molecule has higher B.A



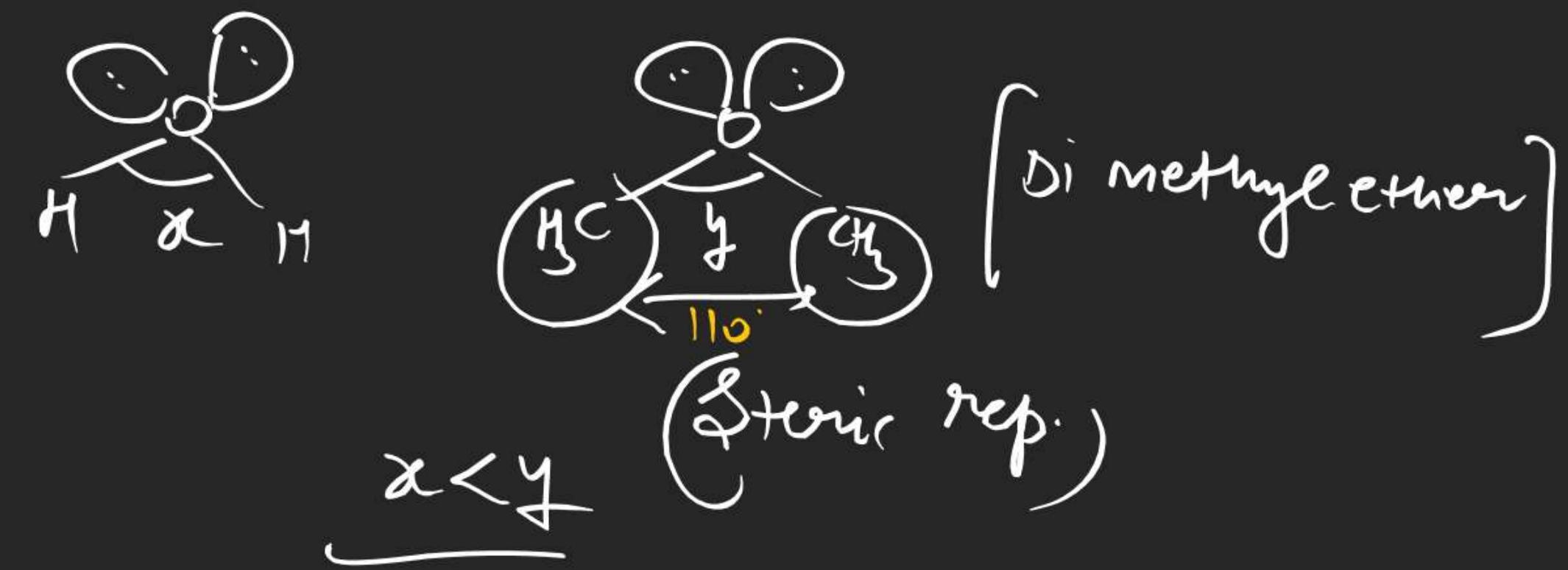


$$x < y$$

steric rep.
and BACK bonding

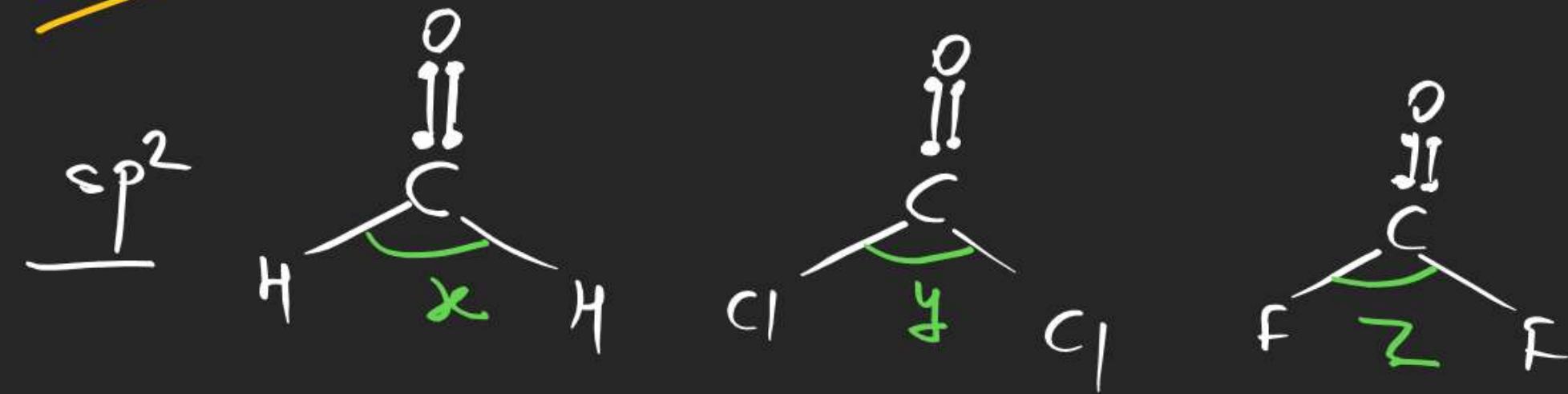
Condition

- ① Hyb. should be sp^3
- ② S_A should be $3^{eq} \left| 4^{th} \right| 5^{th} \text{ period} \left| 4g \right\}$

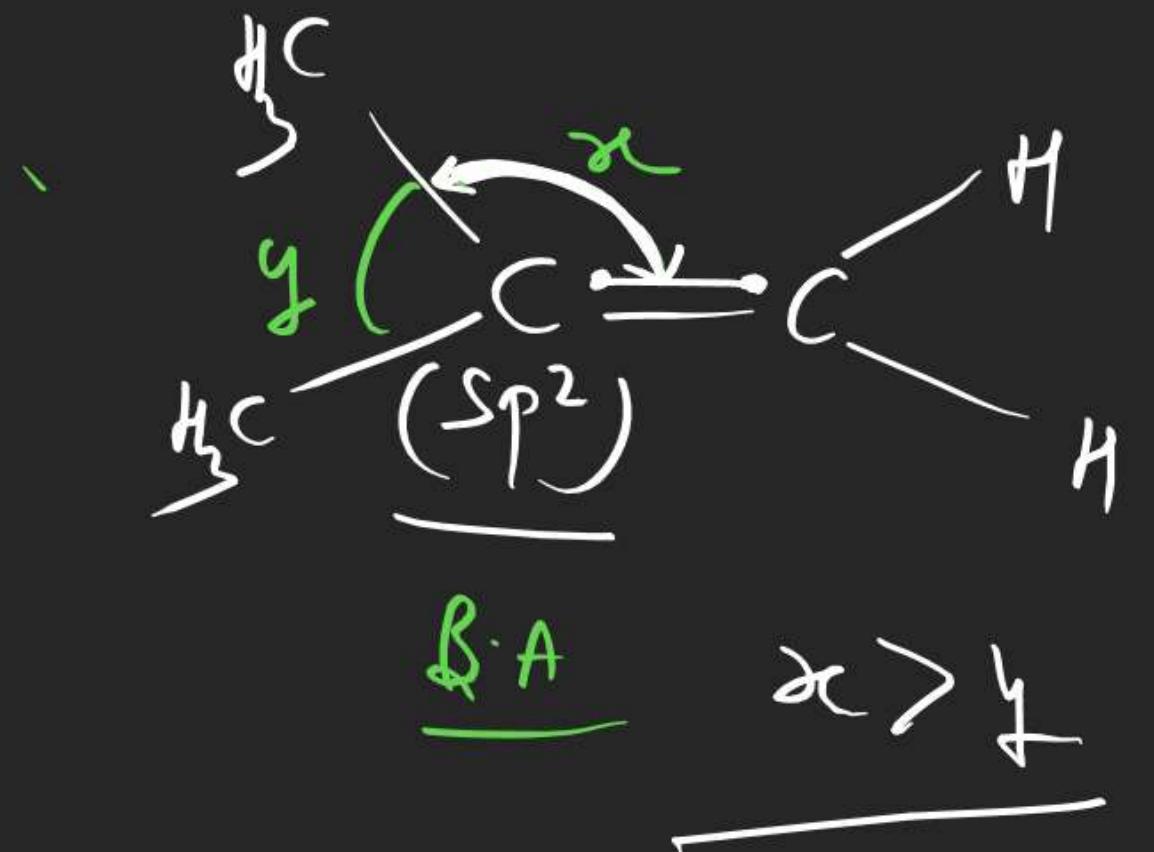


$\beta\text{-A}\alpha \perp$
E.N.D.S.A

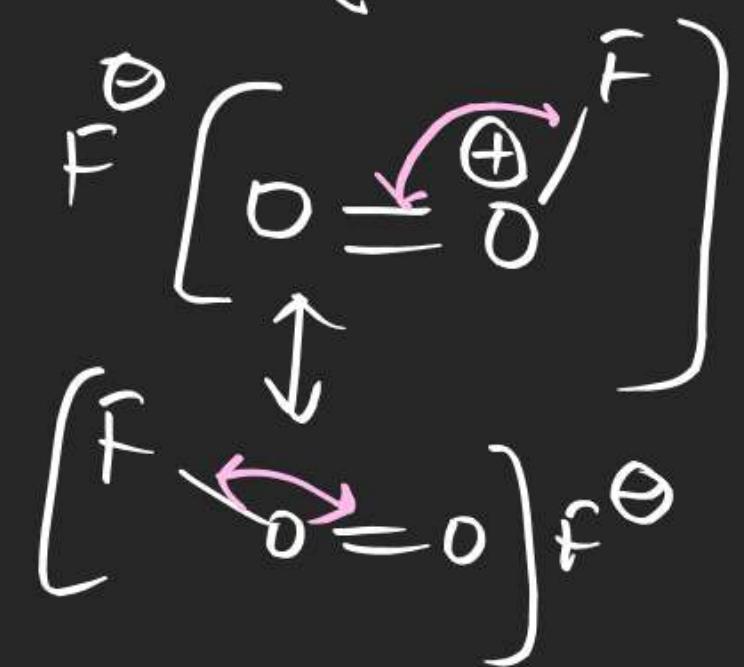
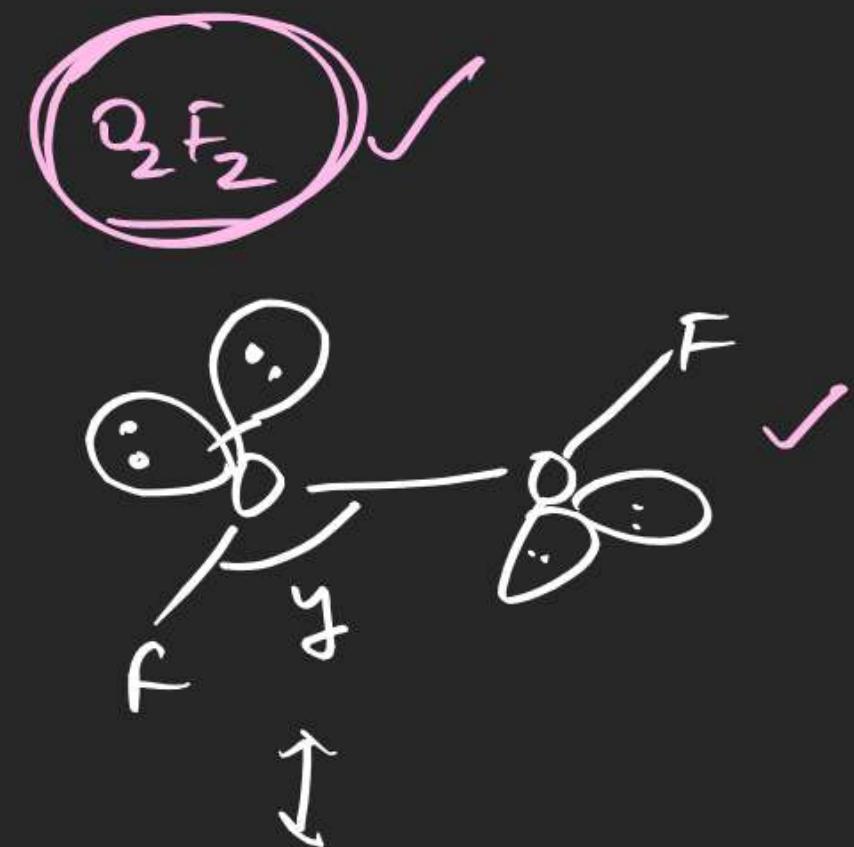
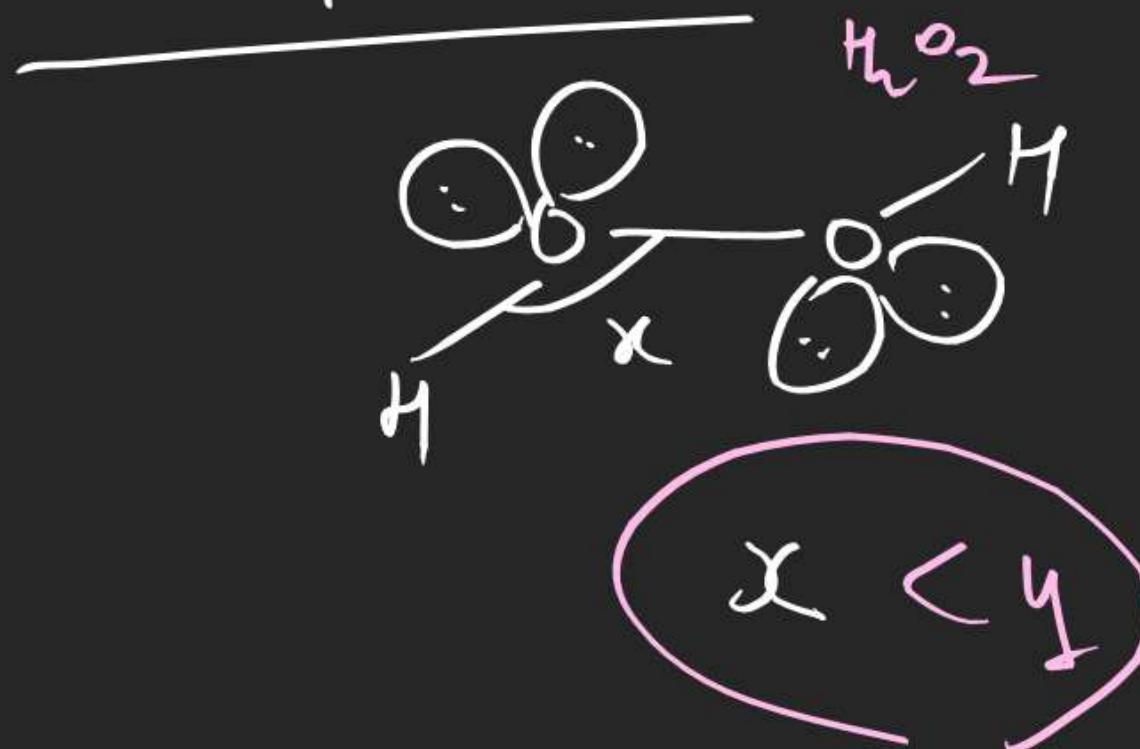
out



$$x > y > z$$



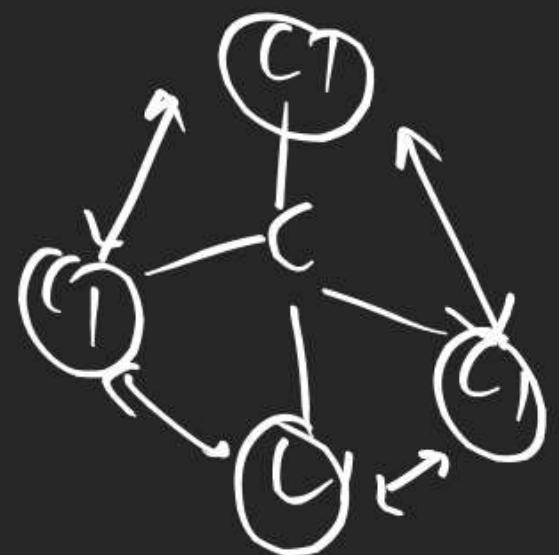
Imp. Question

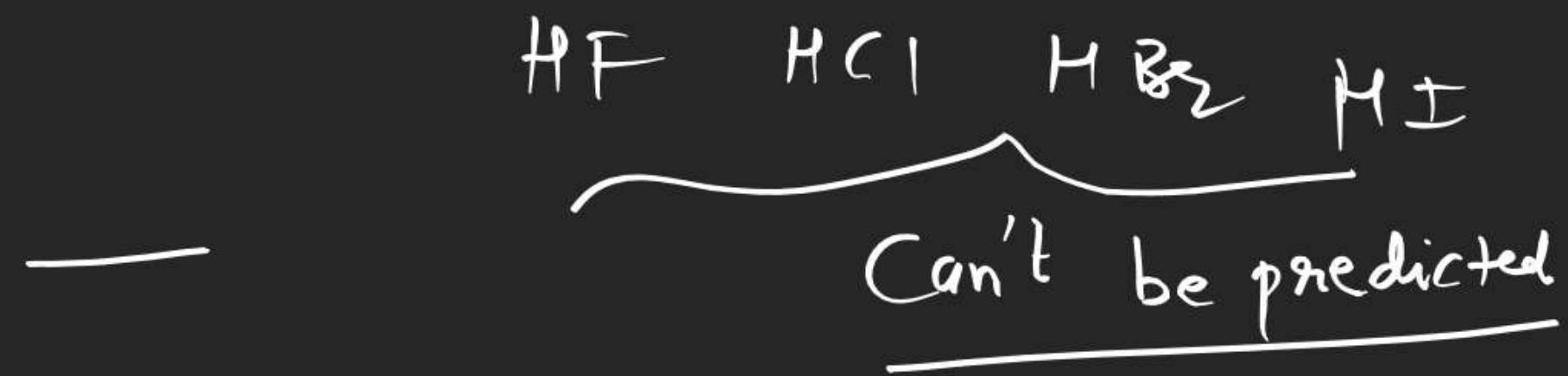


Order of BA

$$BF_3 = BC_3 = BB_3 = BI_3 = 120^\circ$$

$$CF_4 = CC_4 = CB_4 = CI_4 = 109.5^\circ$$





B-A = Angle between two bonds
