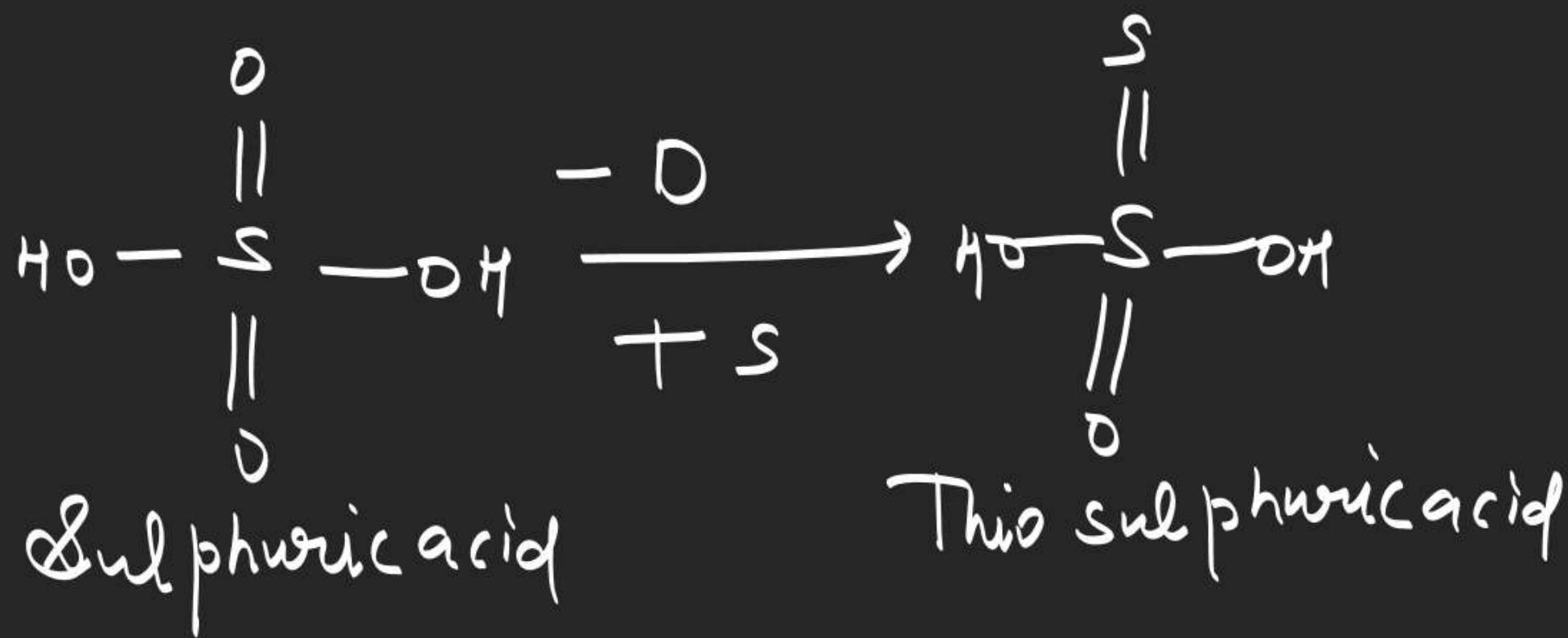
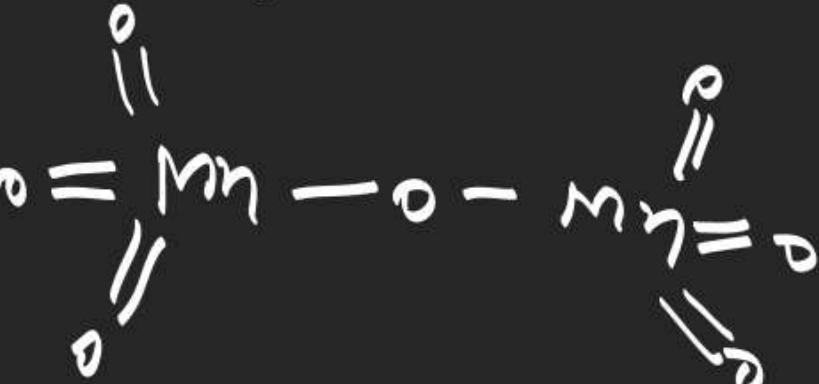
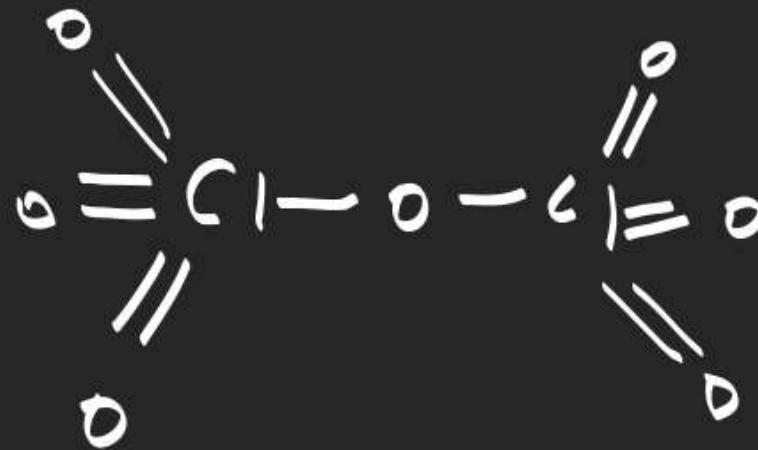


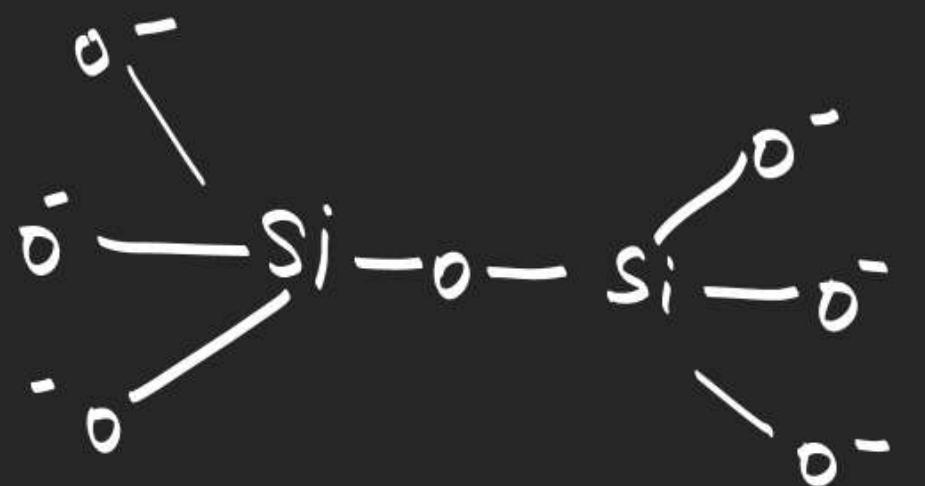
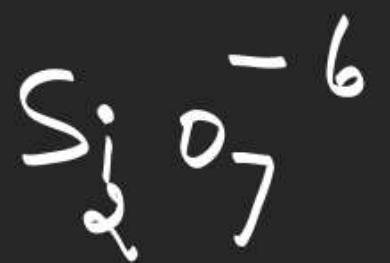
Thio  $\Rightarrow$

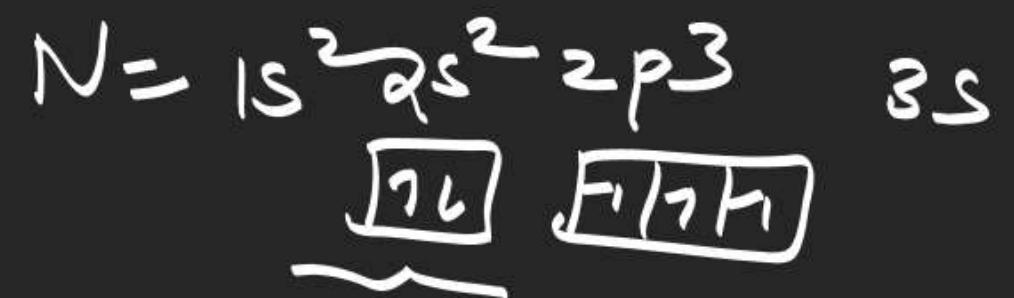
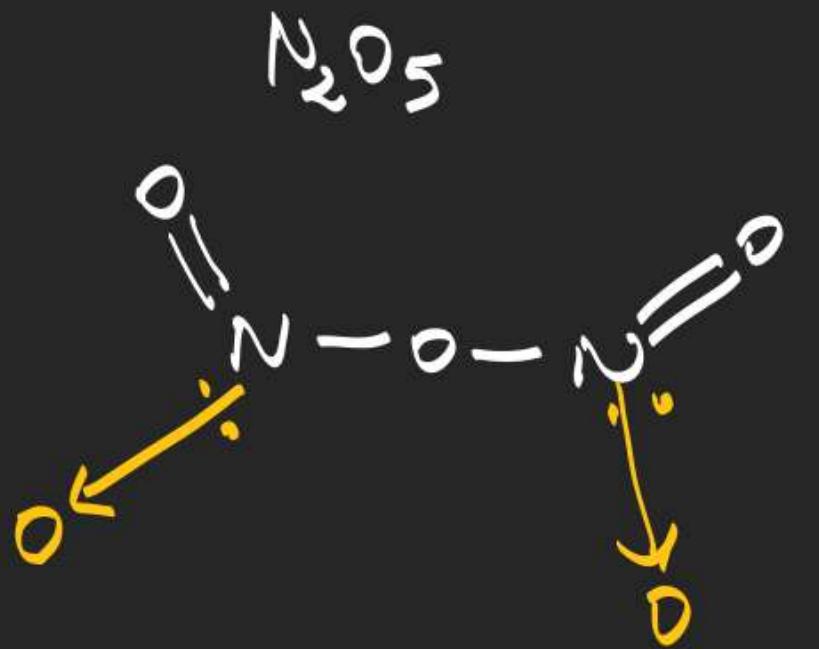


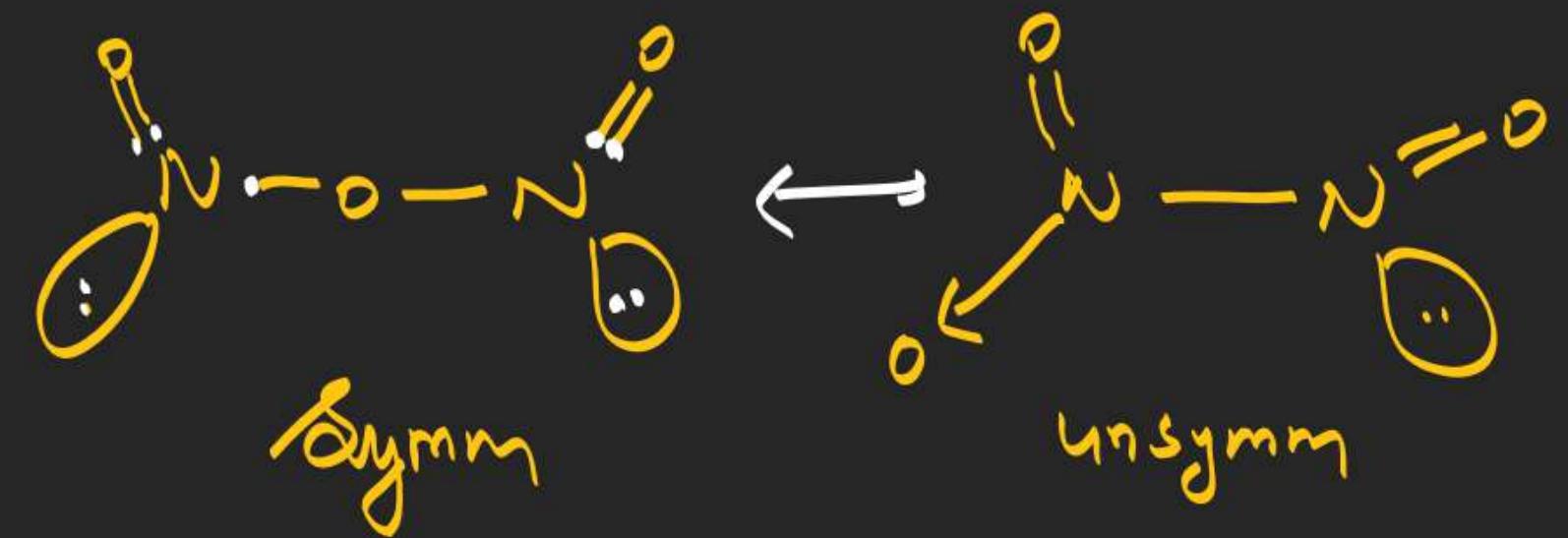
## Structure of molecule

if  $C \cdot A = 2$   
 S.A odd number  
 Then linkage =  $X-O-X$







$N_2O_3$ 

if C.A = two

and S.A = even number

then linkage =  $X-X$  [When oxidation state  
of C.A in Range]

$X-O-O-X$  [When oxidation state  
of C.A is out  
of Range]

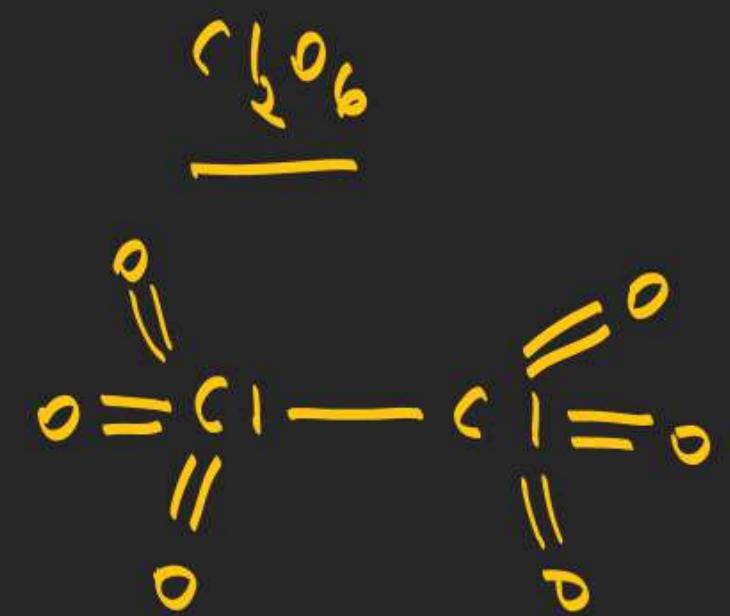
Oxidation State Range = ( $n-8$ ) to  $n$

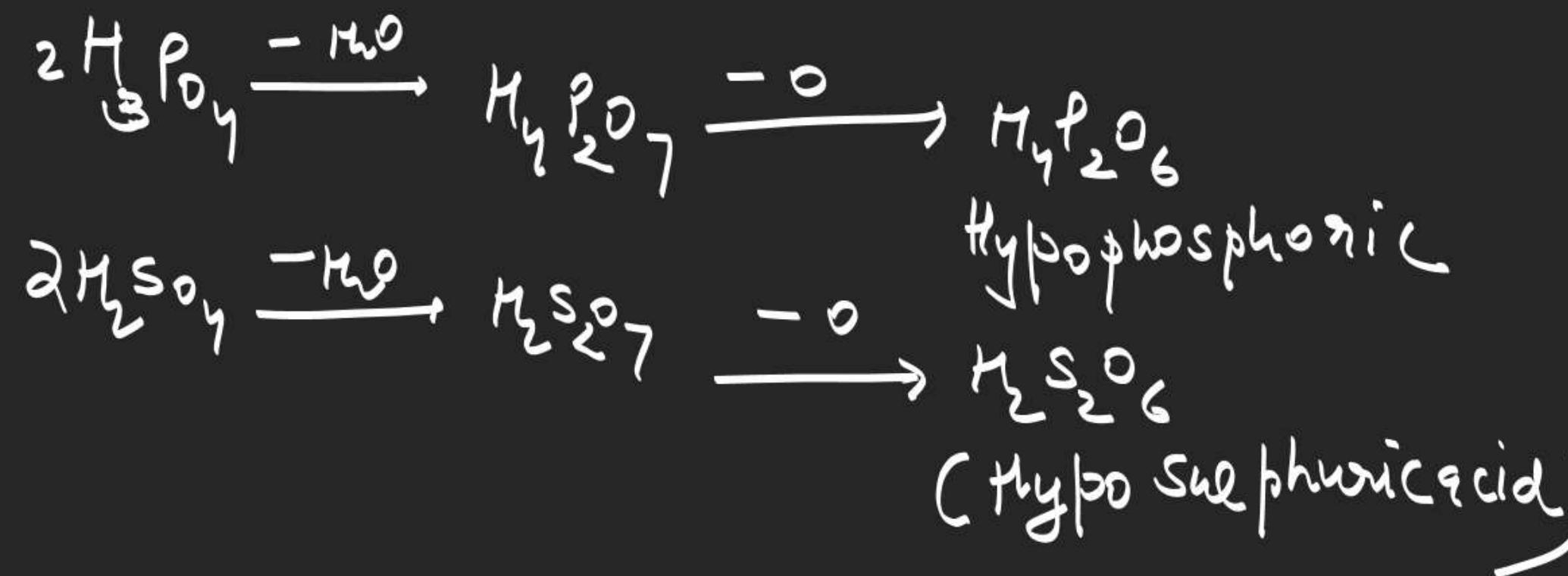
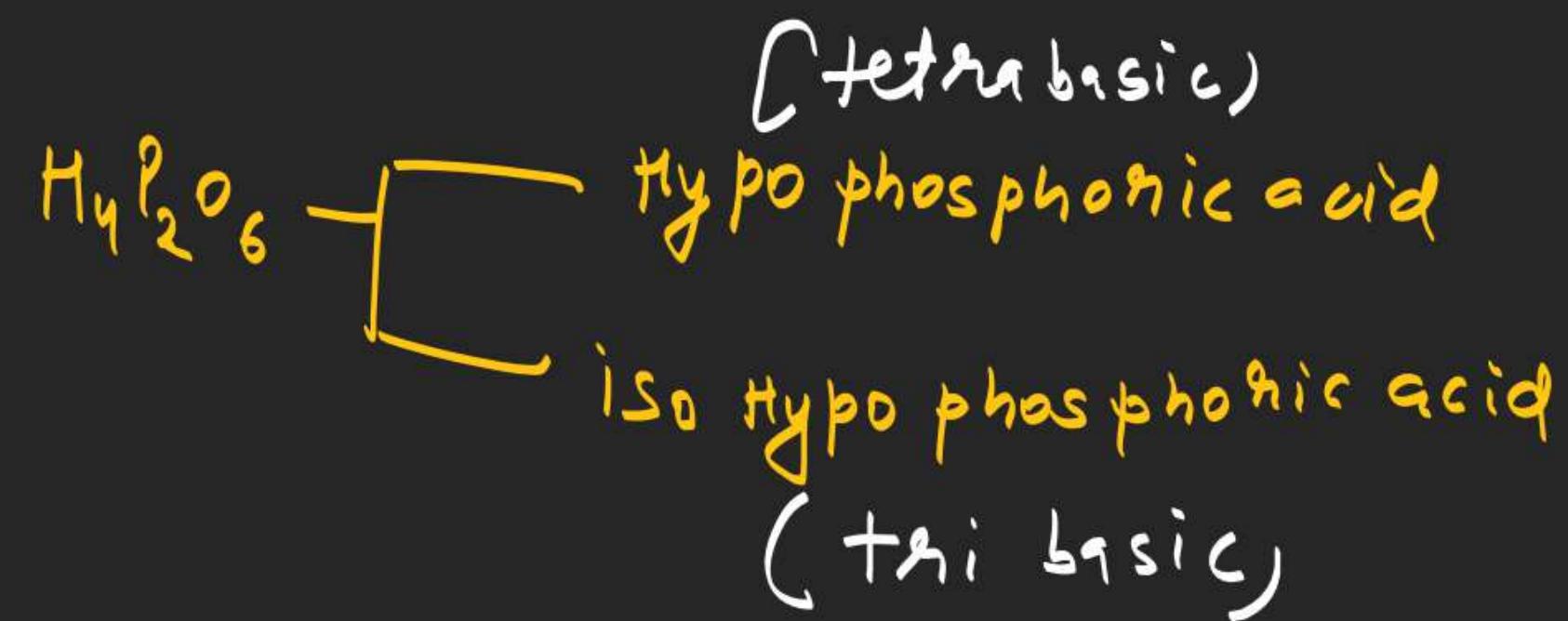
$\gamma = \text{no. of val. e}^-$

C = -1 to +7

P = -3 to +5

S = -2 to +6





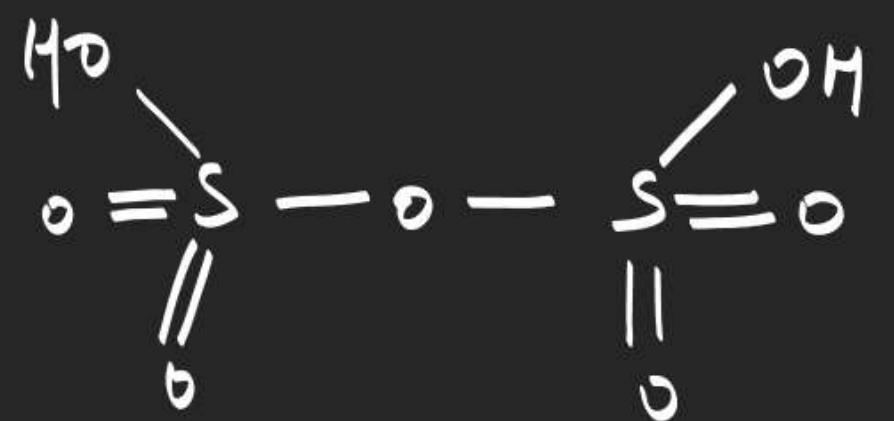


Hypo phosphoric acid



isohypo phosphoric acid

$H_2S_2O_7$  [pyrosulphuric acid]  
Dicum)

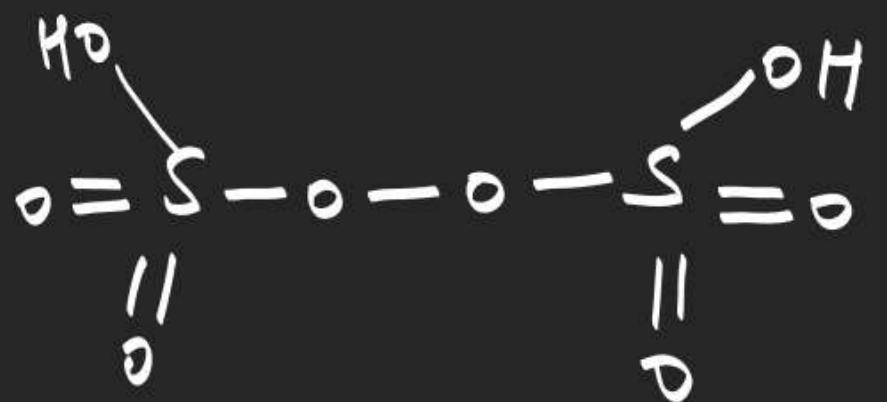


$H_2S_2O_8$  (Peroxy disulphuric acid)  
Marshall's acid

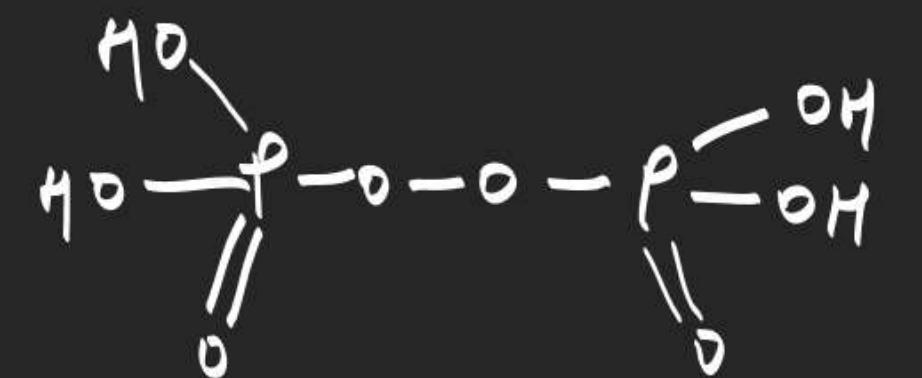
$$2 + 2x + 8(-2) = 0$$

$$x = +7$$

out of Range

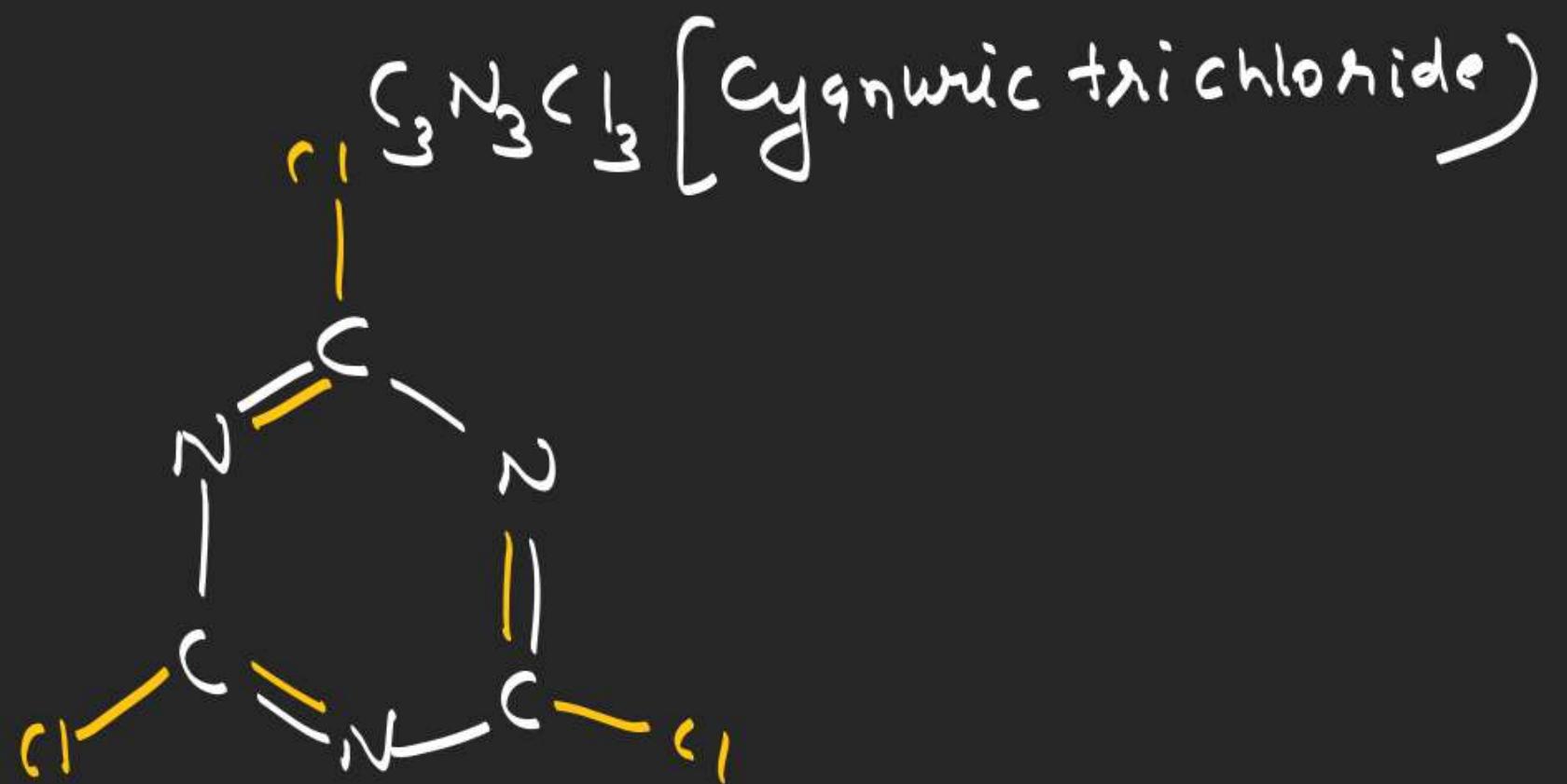


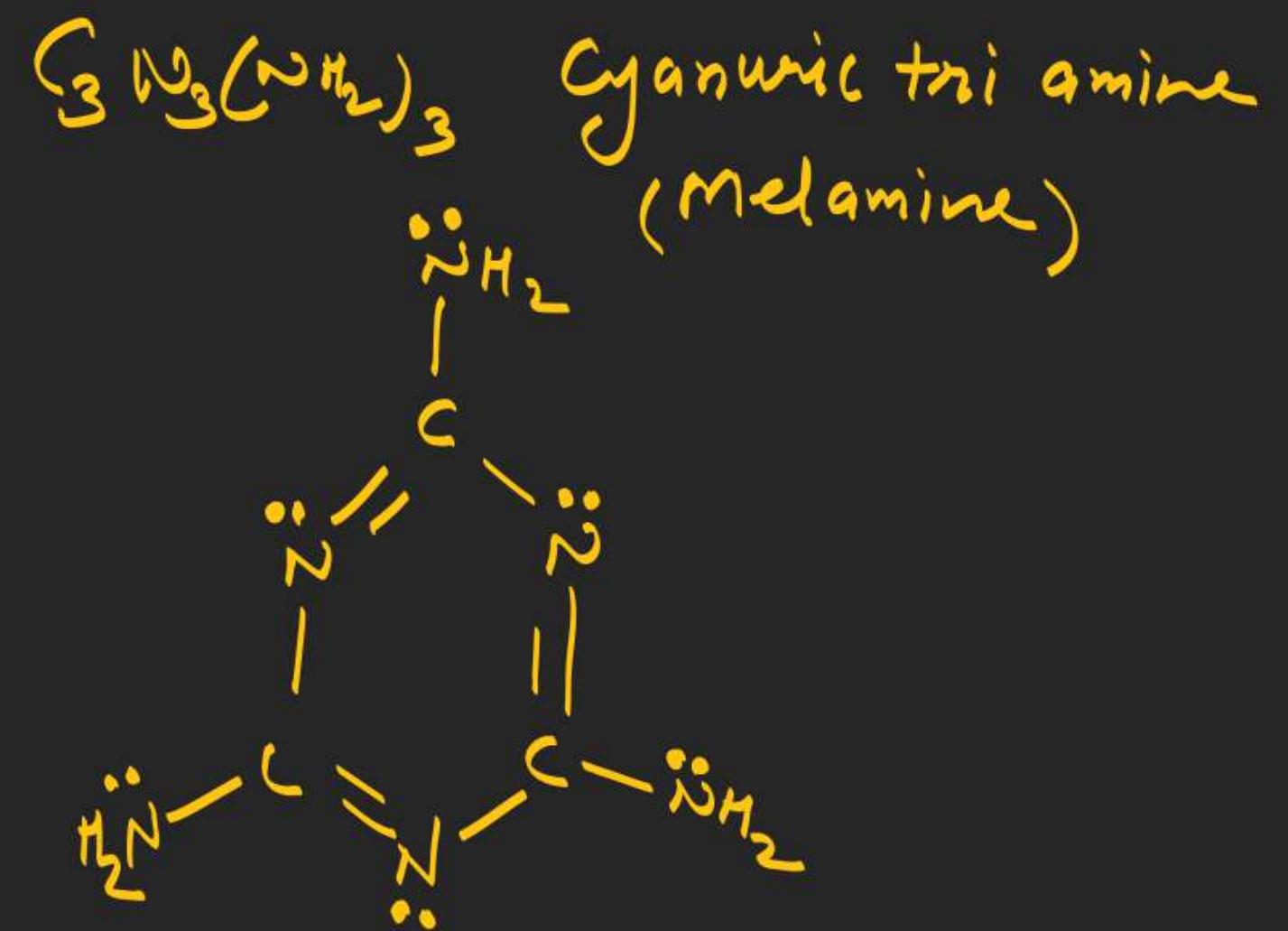
$H_4P_2O_8$  {peroxo di phosphoric acid}



Cyclic Structure →

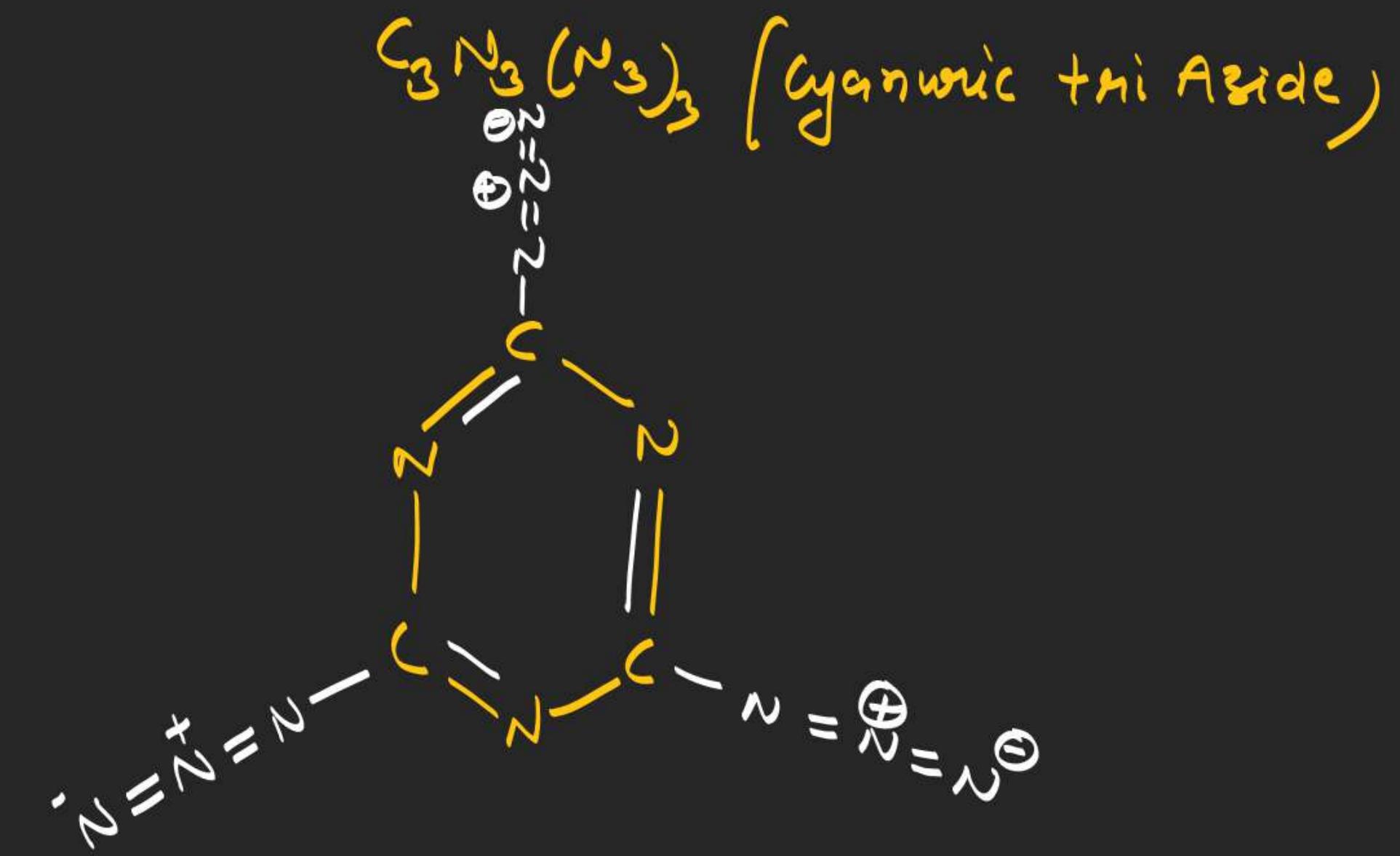
C.A more than two and S.A should be equal or greater than the C.A

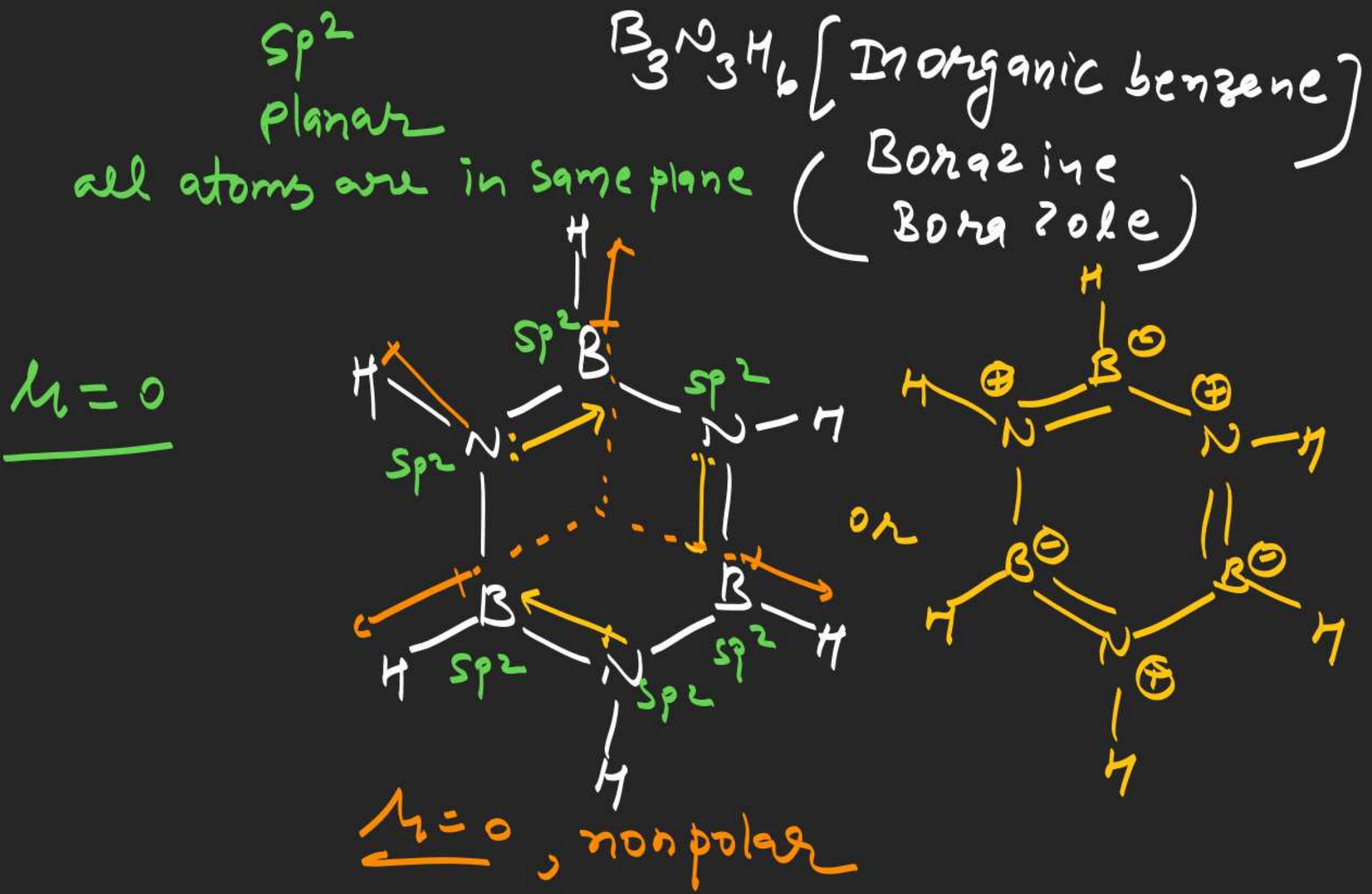




find the number of  $\sigma$ . $\rho$  in melamine

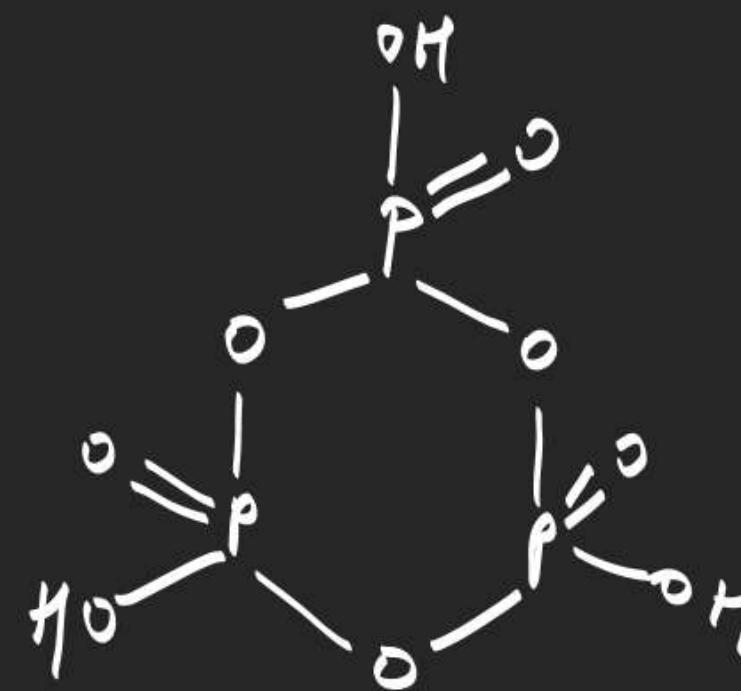
Ans = 6







Cyclic trimetaphosphonic acid



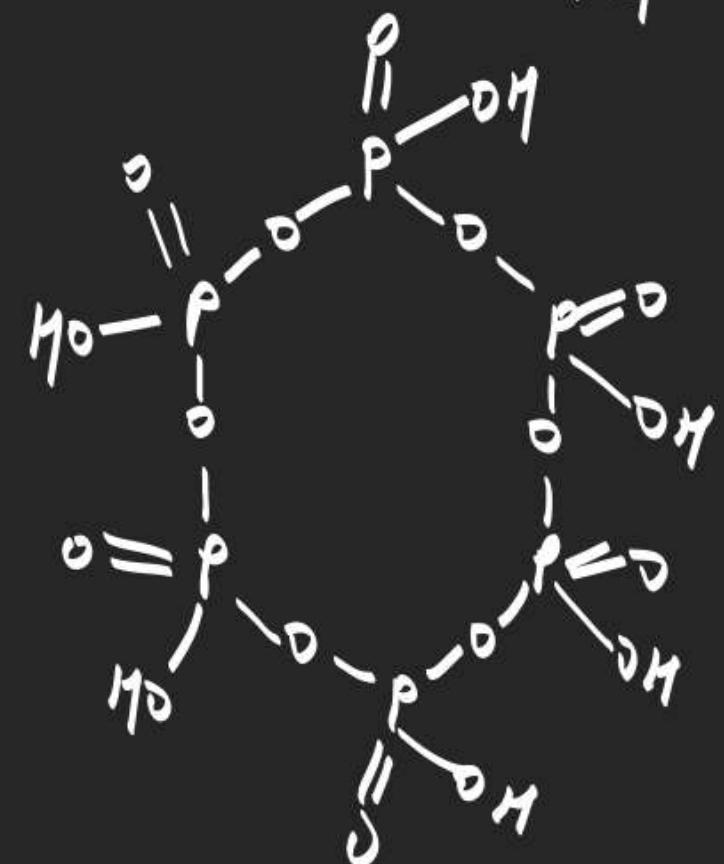
Cyclic  
tetrameta  
Phosphonic acid



Cyclic  
penta  
meta  
phosphonic  
acid



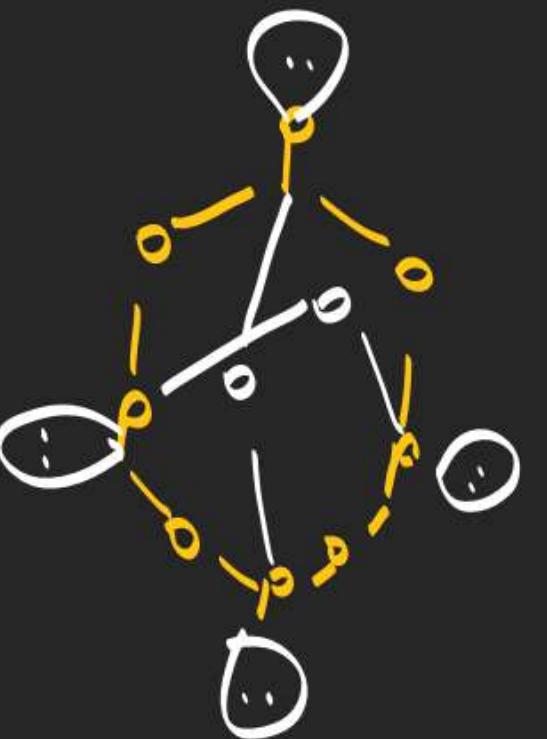
Cyclic  
hexameta  
phosphonic  
acid

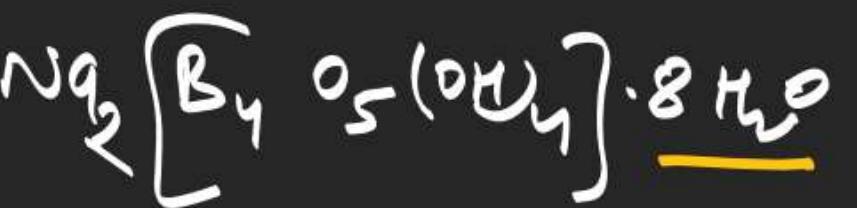


P<sub>4</sub>O<sub>10</sub>

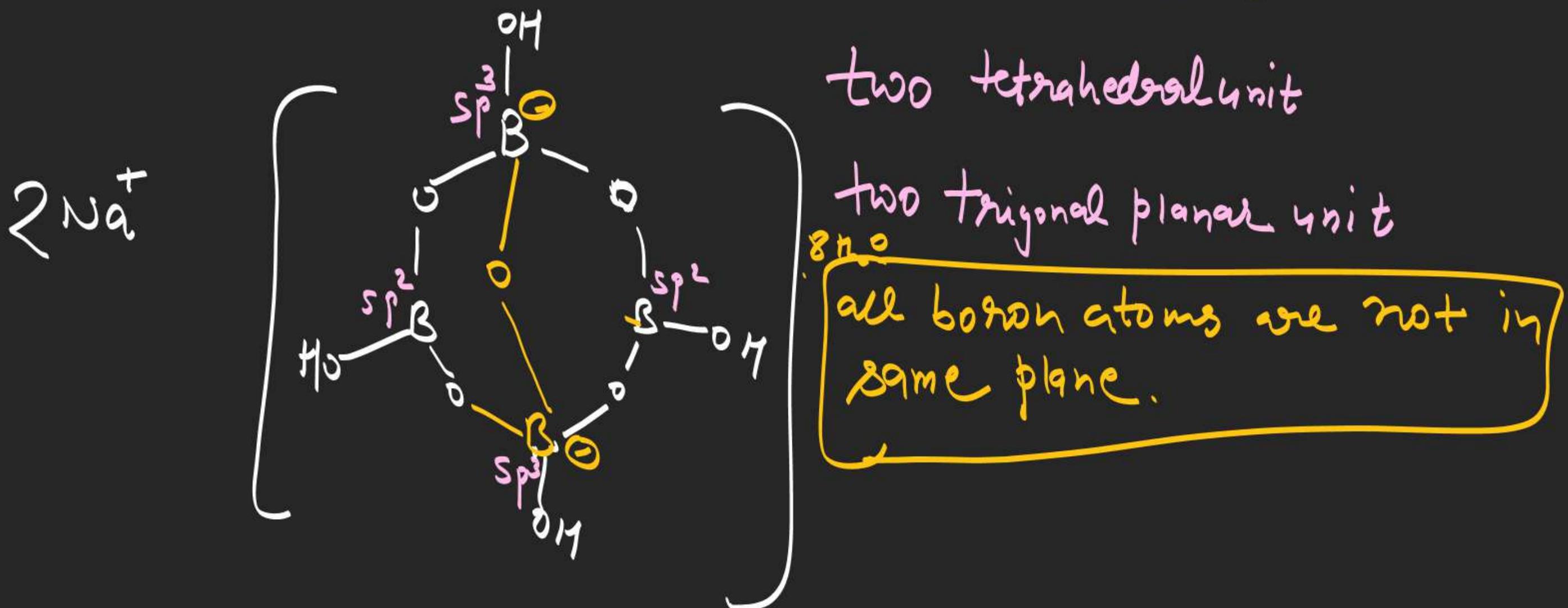


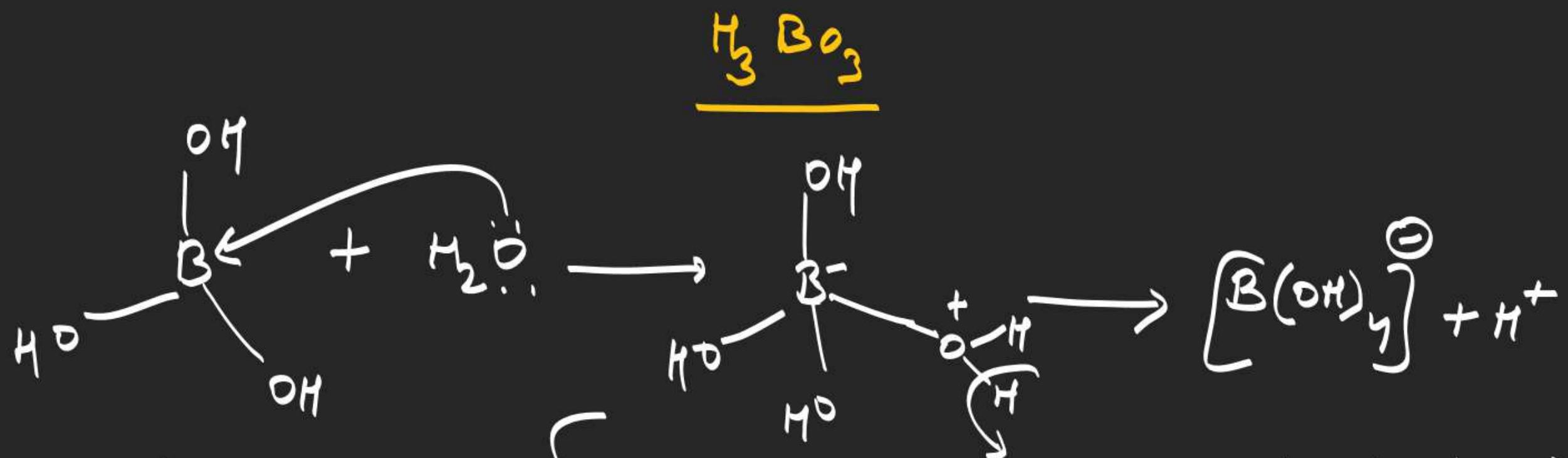
P<sub>4</sub>O<sub>6</sub>





B-O-B linkage = 5



 $sp^2$  $B = 1s^2 2s^2 2p^1$  $\boxed{1} \boxed{\overline{1}\mid 1}$ 

$\left\{ \begin{array}{l} H_3BO_3 \text{ is a weak monobasic lewis acid} \\ \text{it is not a proton donor acid} \\ \text{because it accepts } L.P.OH \end{array} \right.$



Peroxomonosulphuric acid  
Caro's acid

