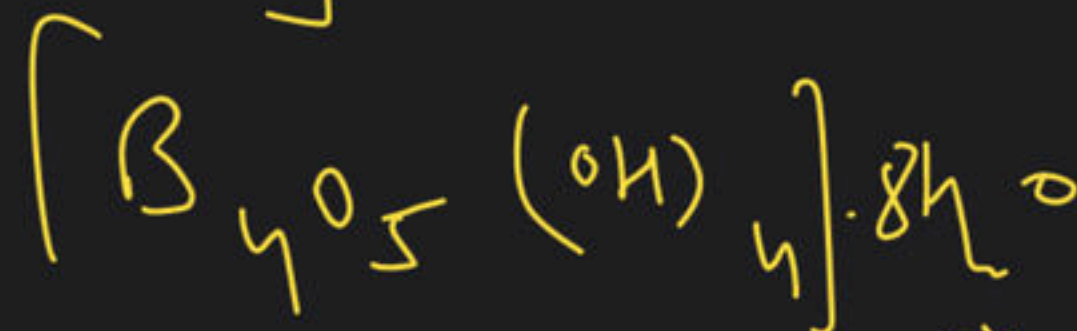
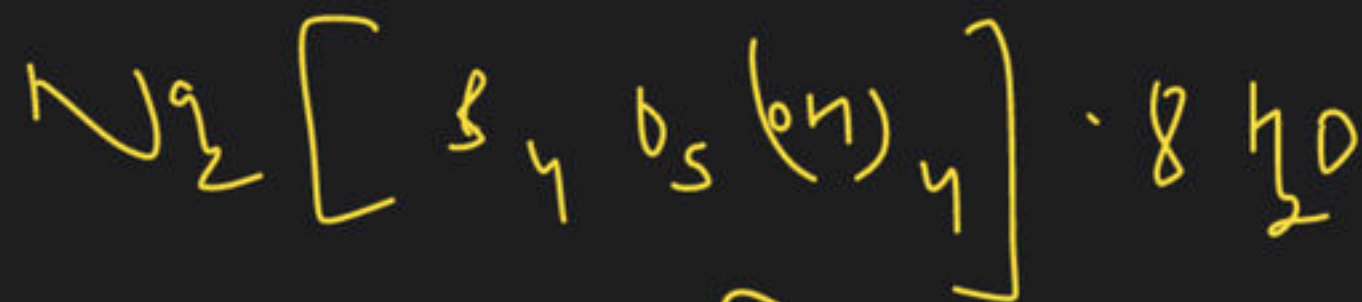




Structure of Covalent Molecule - II

Nurture: Course on Chemical Bonding for Class XI 2023

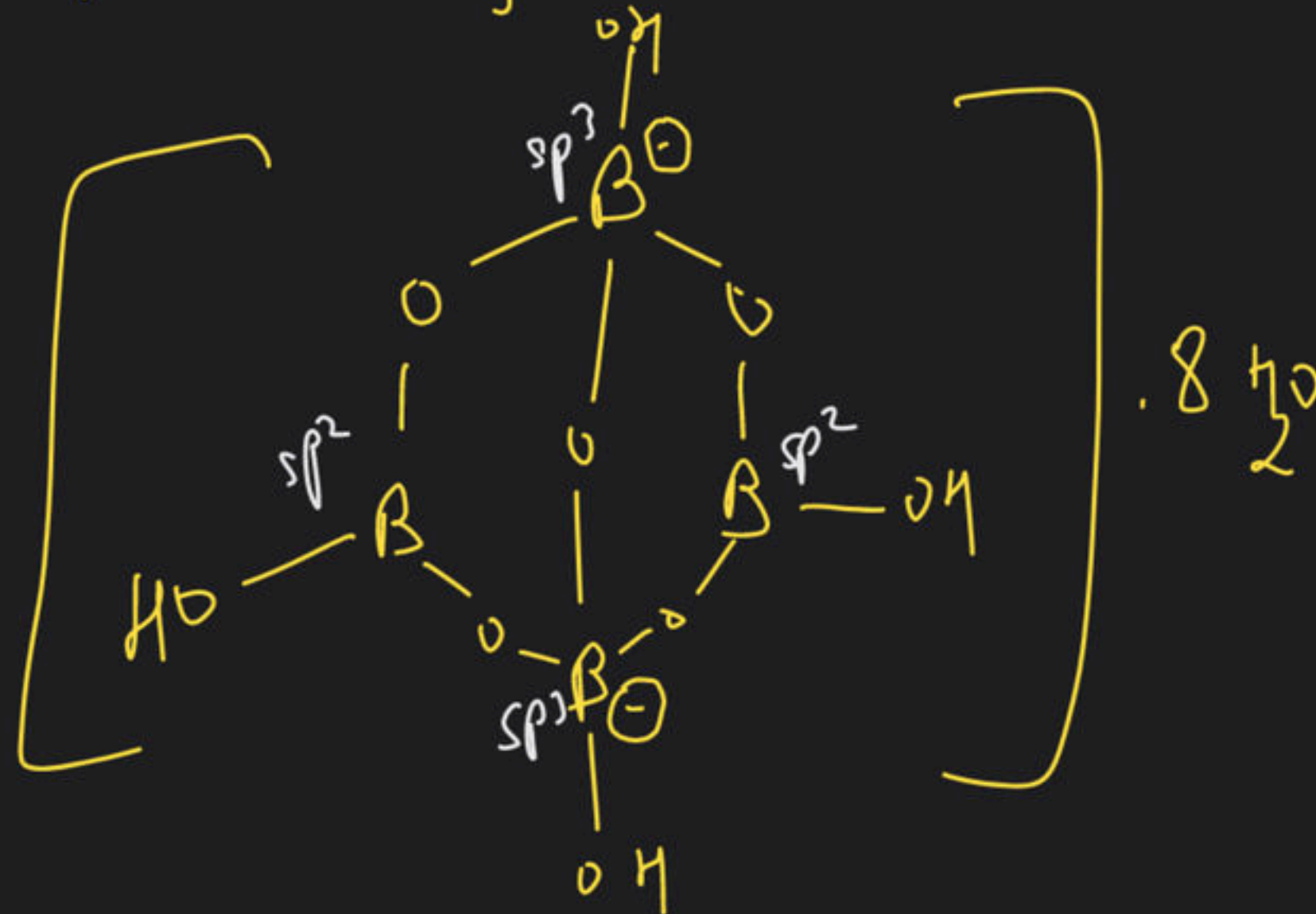
Borax

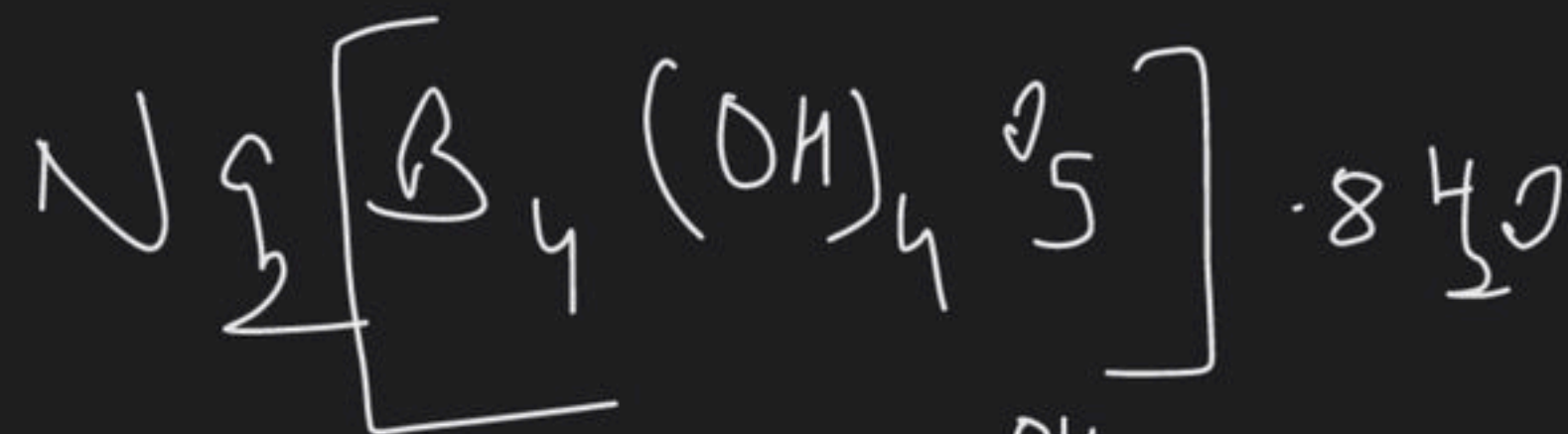


two Boron = sp^3 tet.

two B = sp^2 trigonal
planar

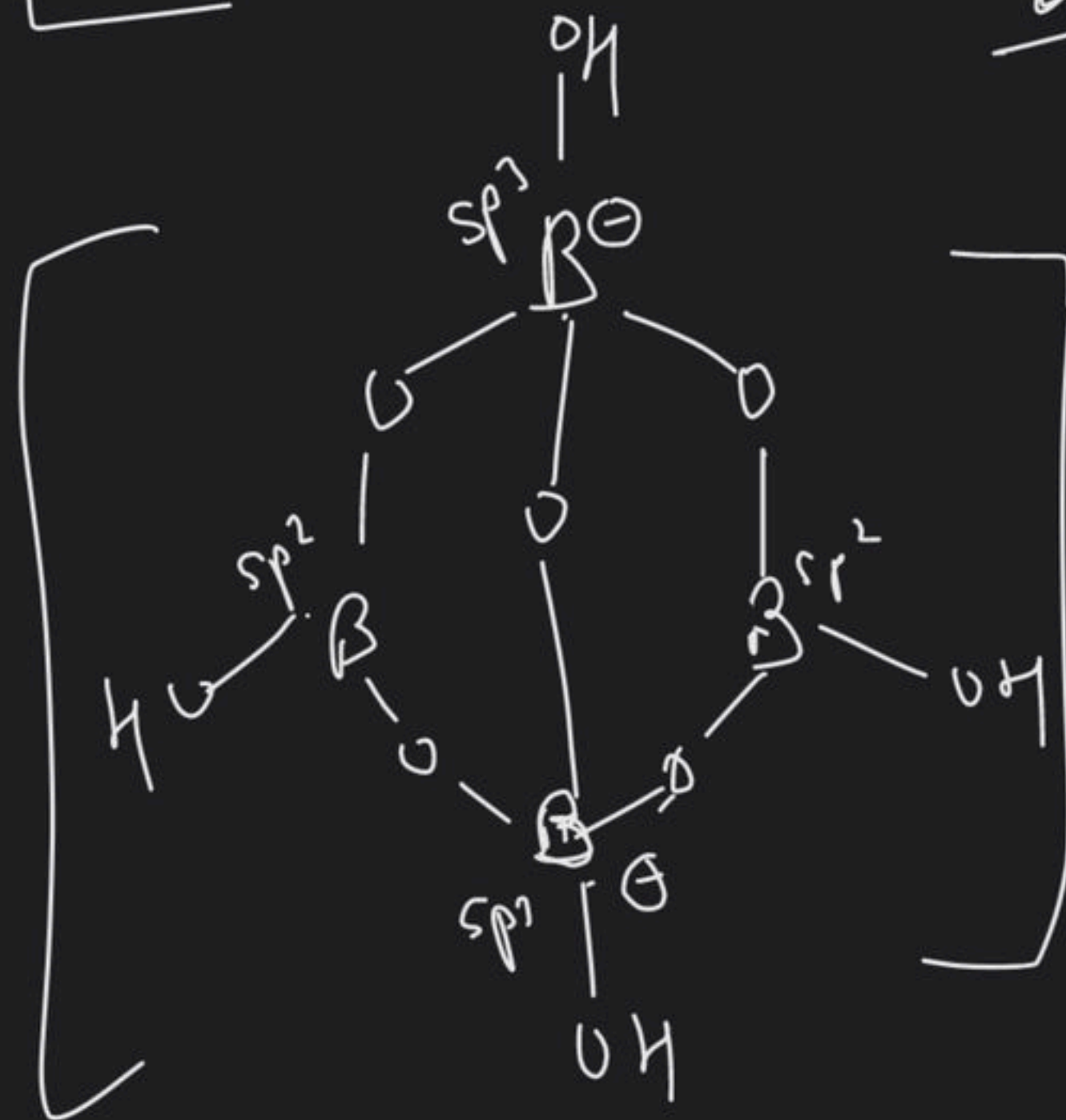
B-O-B linkage = 5



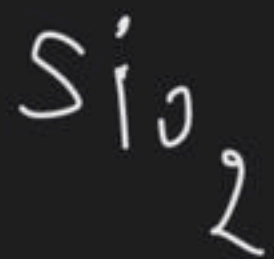


and all borons are
in same plane

T/F

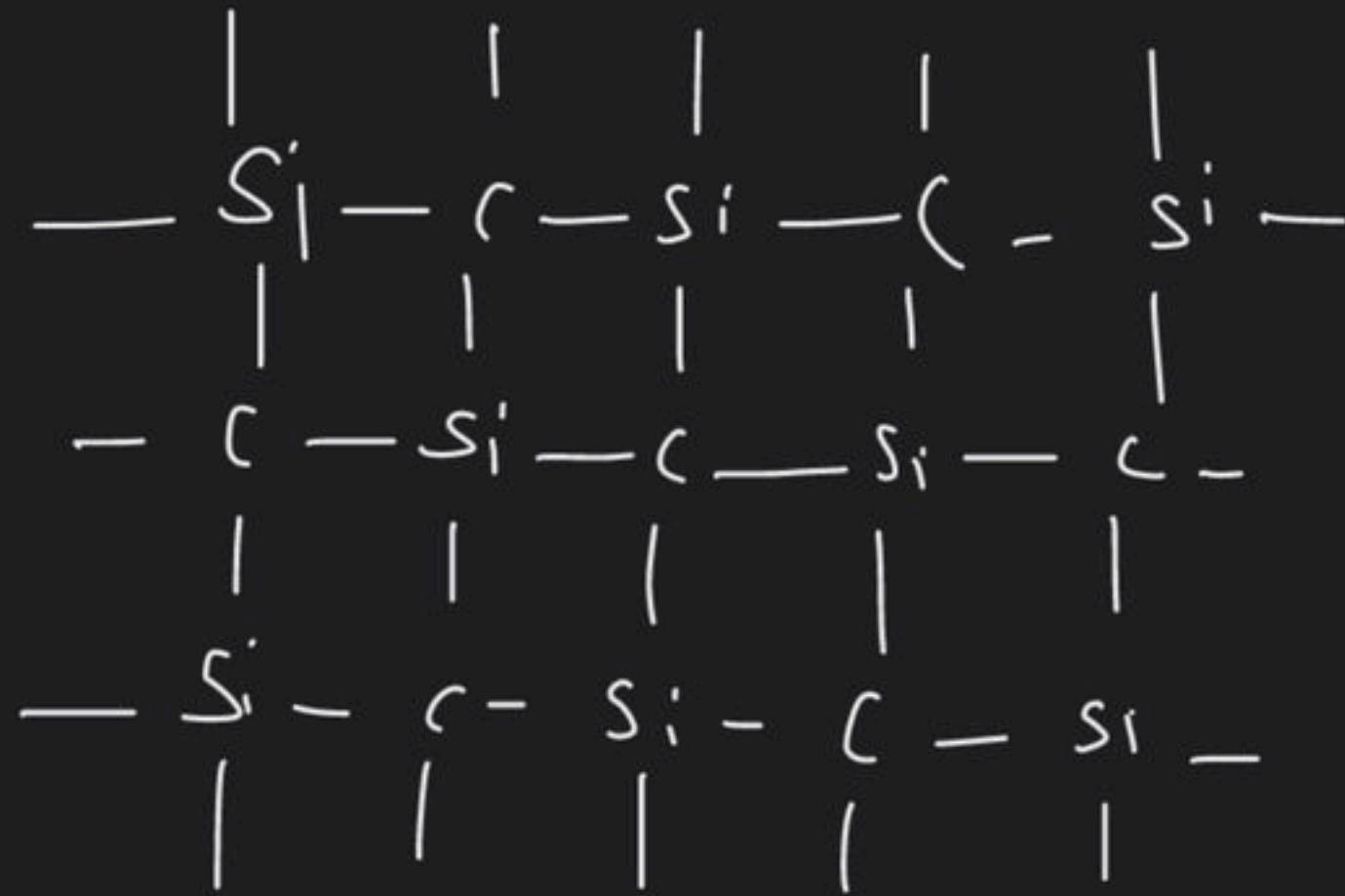


False



Sic (Silicon Carbide)

Carborundum



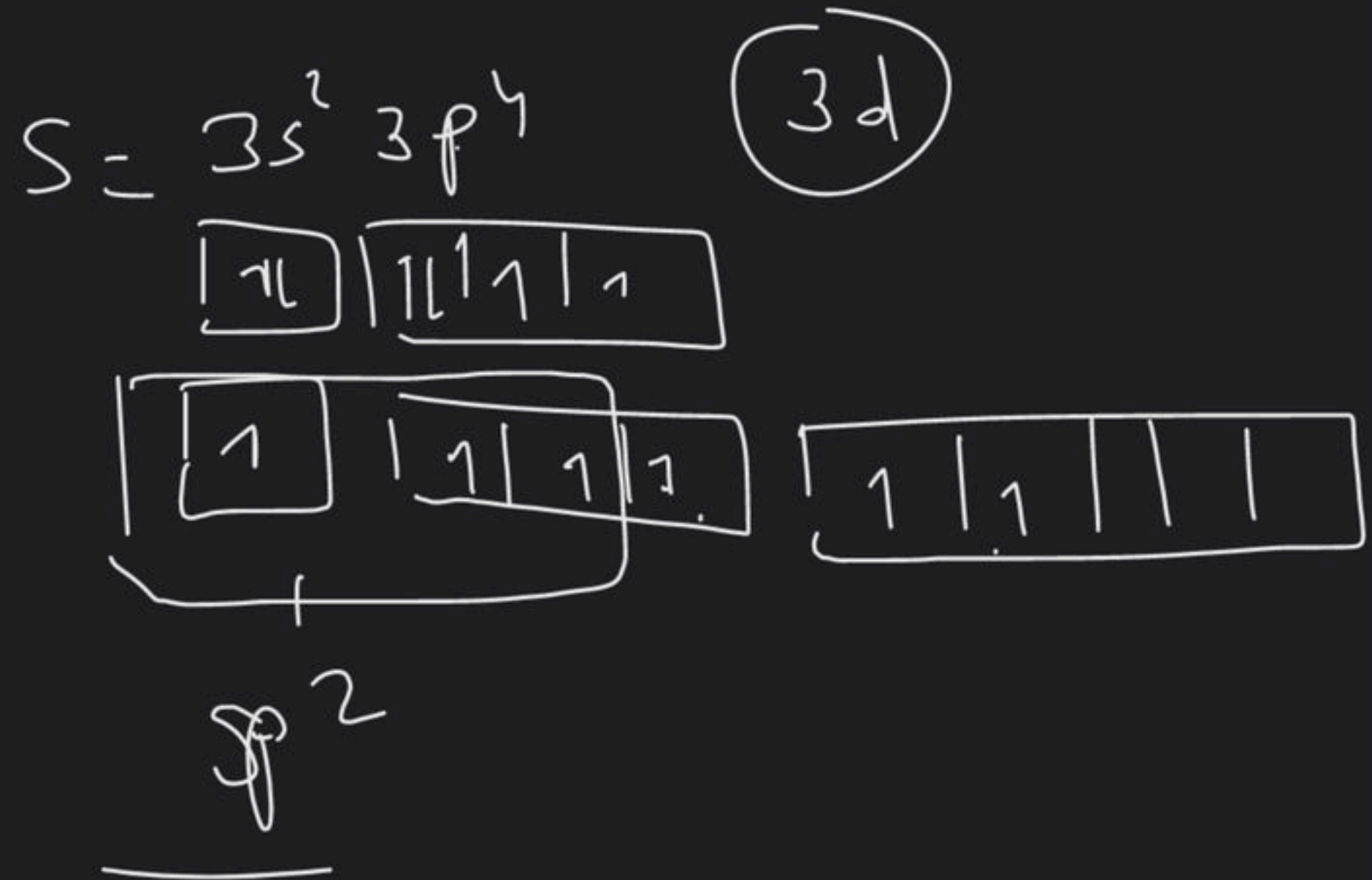
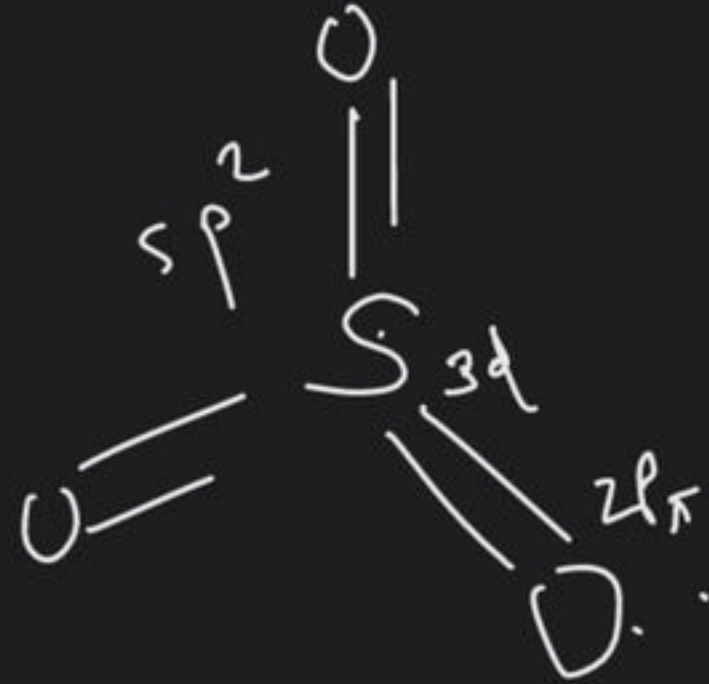
sp^3 tet. non planar

Second hardest material after diamond

find the number of $d_{\pi}-p_{\pi}$ bonds
in SO_3

$$\text{one} = p_{\pi} - p_{\pi}$$

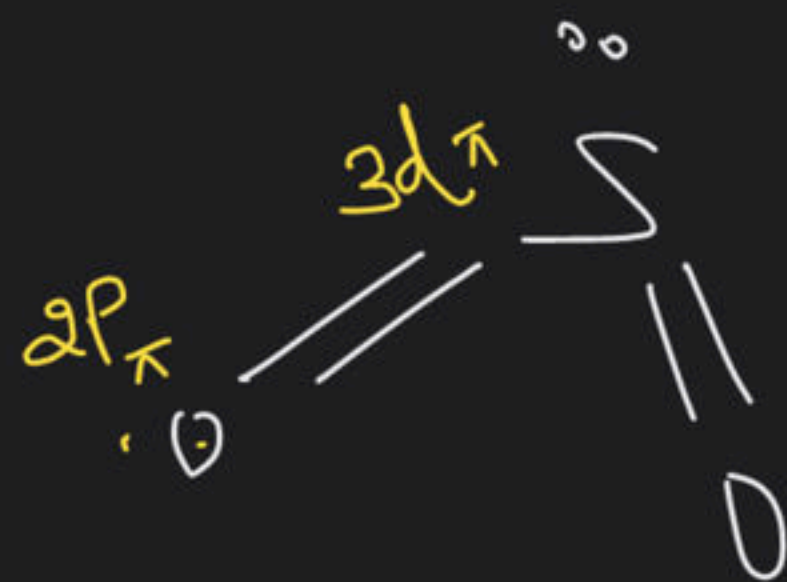
$$\text{two} = d_{\pi} - p_{\pi}$$



$$0 = 1s^2 2s^2 2p^4$$



find the number of $p_{\pi} - d_{\pi}$ in SO_2



$$S = 3s^2 3p^4$$



Naming of oxyacid

highest O.S. = ic

not highest = ous

H_2SO_4 = Sulphuric acid

H_2SO_3 = Sulphurous acid

$\text{H}_3\text{PO}_4 = \text{phosphoric acid}$

$\text{H}_3\text{PO}_3 = \text{phosphorous acid}$

$\text{HNO}_3 = \text{nitric acid}$

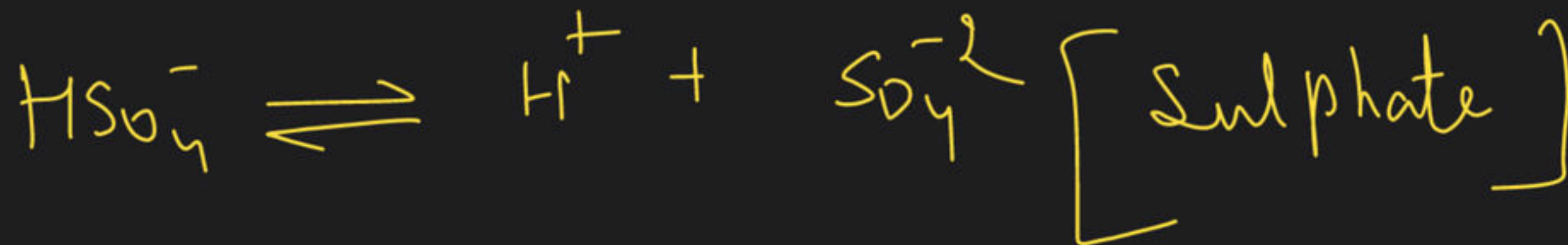
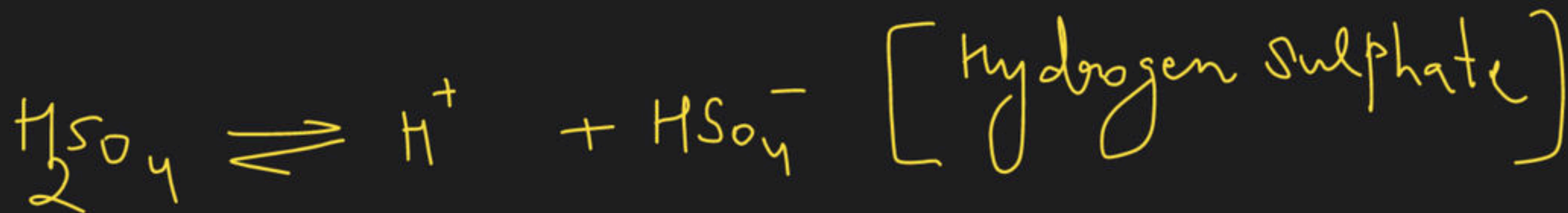
$\text{HNO}_2 = \text{nitrous acid}$

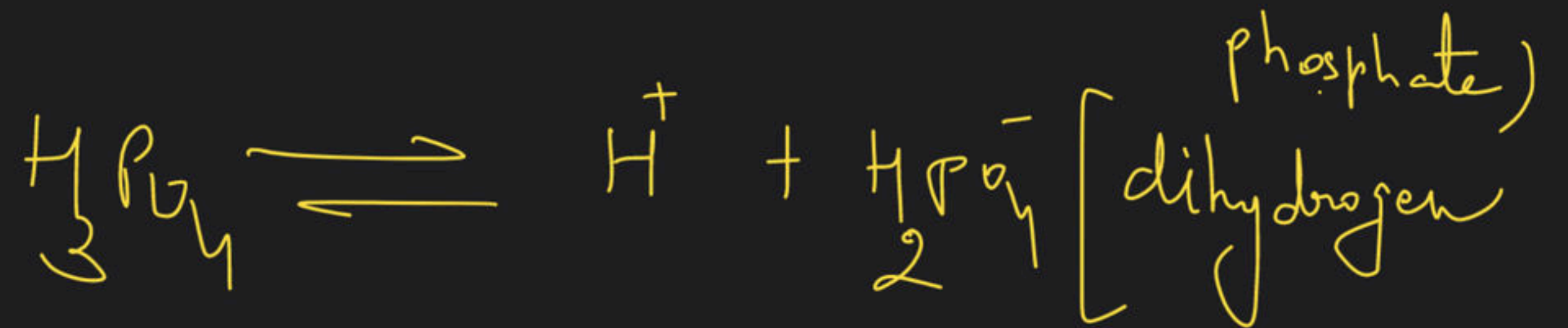
naming of oxy salt

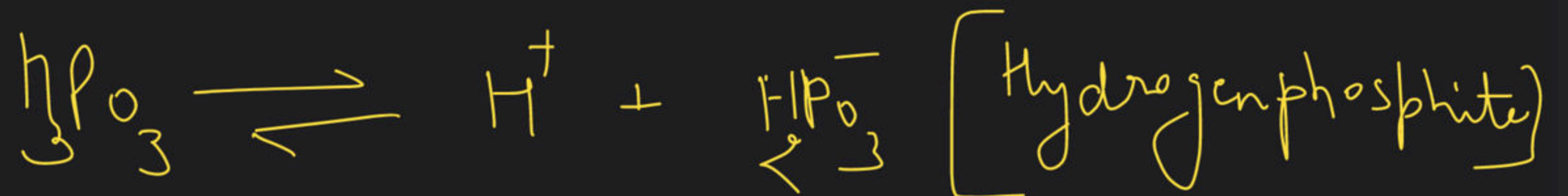
ic acid

ous acid

ate
ite

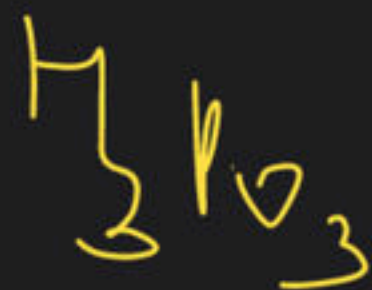






basicity

phosphorous

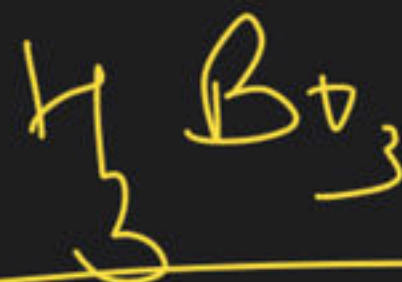


2

hypophosphorous acid H_3PO_2

1

Boric acid



1

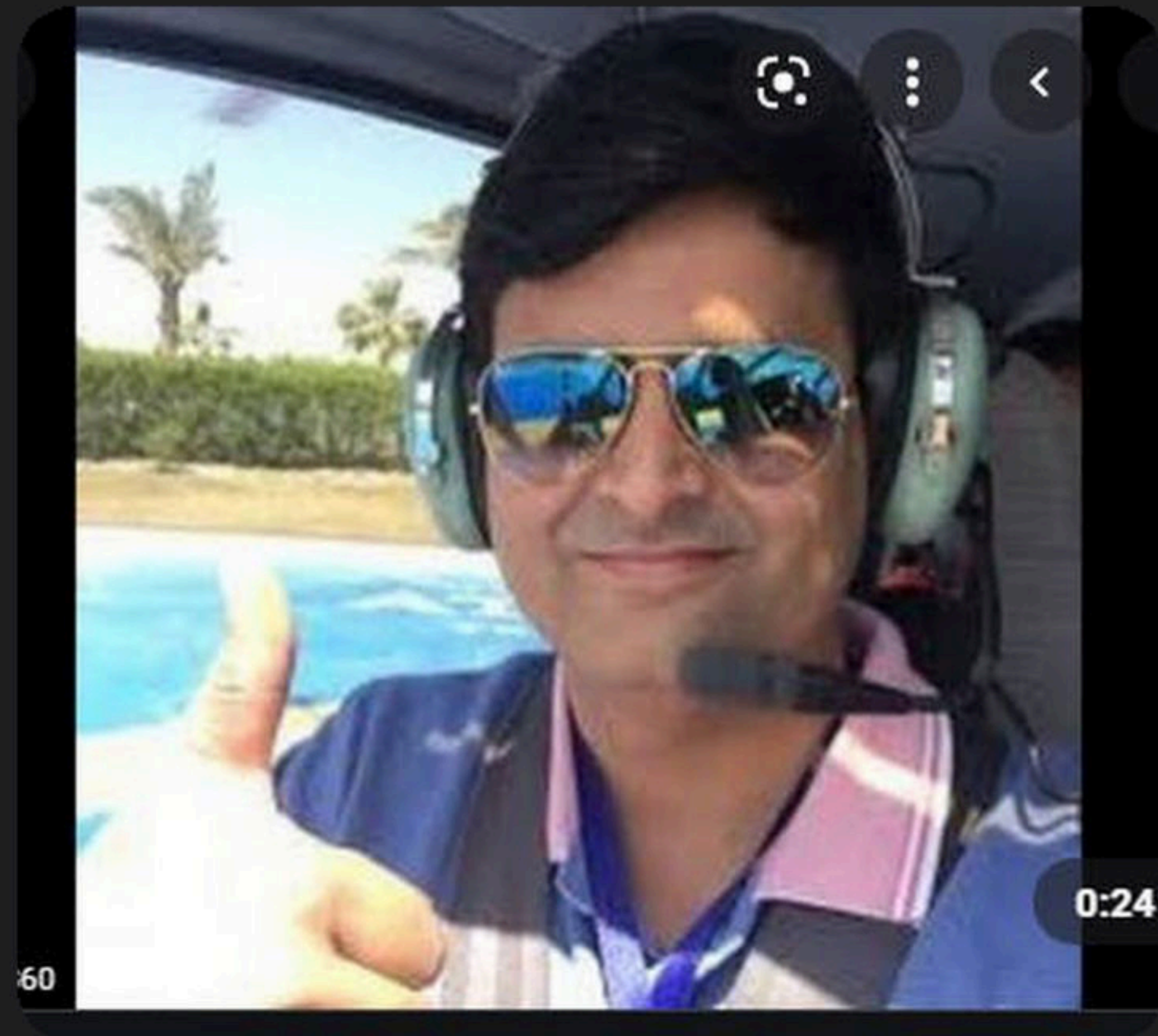
Pyrophosphorous acid



2

▲ 16 • Asked by Priyanshu ...

wow awesome sir



▲ 5 • Asked by Anurag

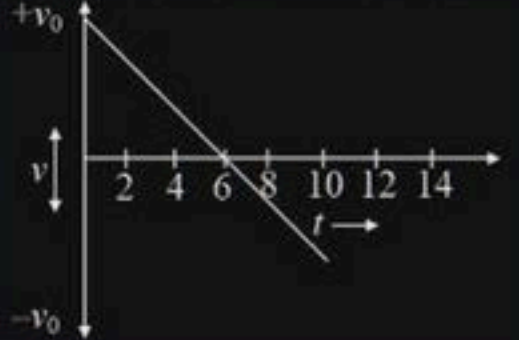
Please help me with this doubt

6:56
21%
01:35:58

Physics MCQs
Finish

Question 20
+4
-1

Consider the given velocity-time graph. It represents the motion of



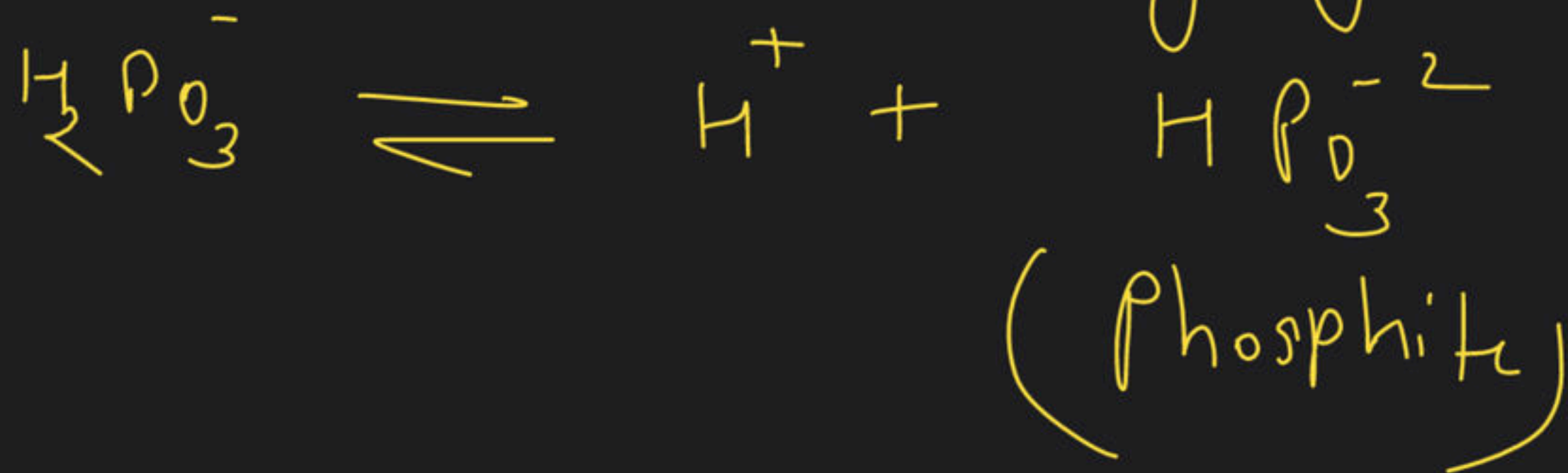
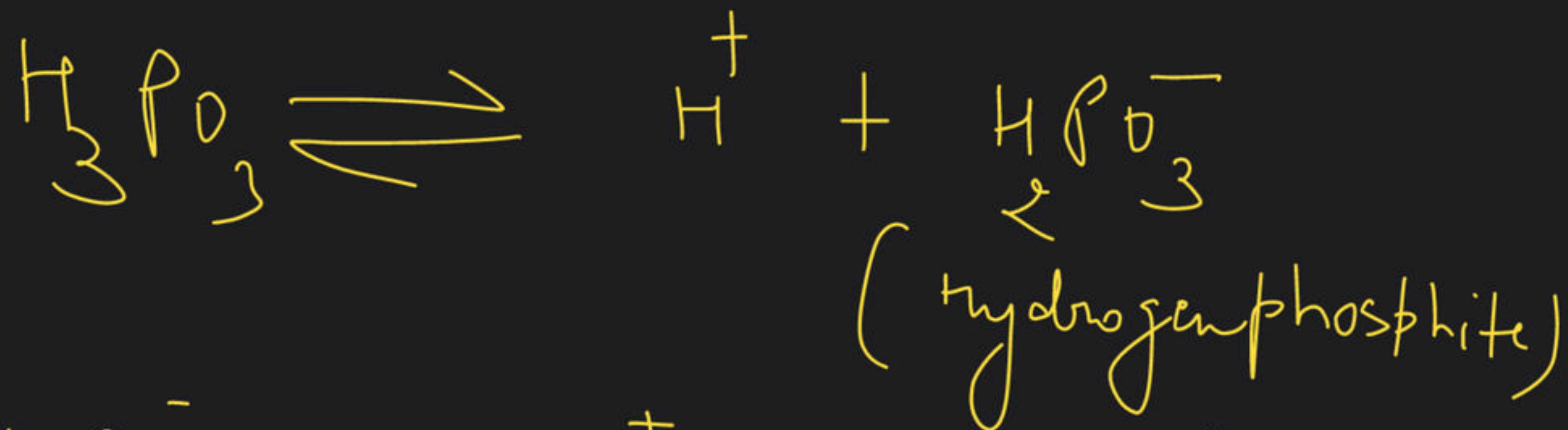
☐ a projectile projected vertically upward, from a point
☐ an electron in the hydrogen atom
☐ a bullet fired horizontally from the top of a tower
☐ an object in the positive direction with decreasing speed

Previous
Save & Next

▲ 4 • Asked by Prasad

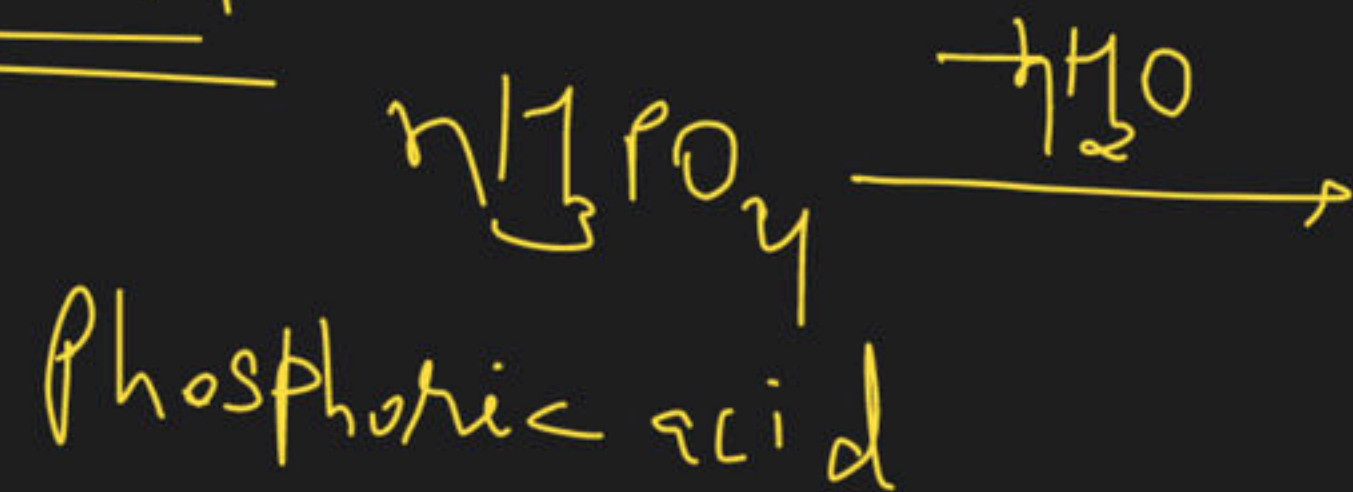
Sir 1st option mai sare f ek plane mai kaise aye ye samaz nhiaya

49. All fluorine atoms are in same plane in:
- (A) CHF_3 (B) ClF_3 (C) XeOF_4 (D) All of these

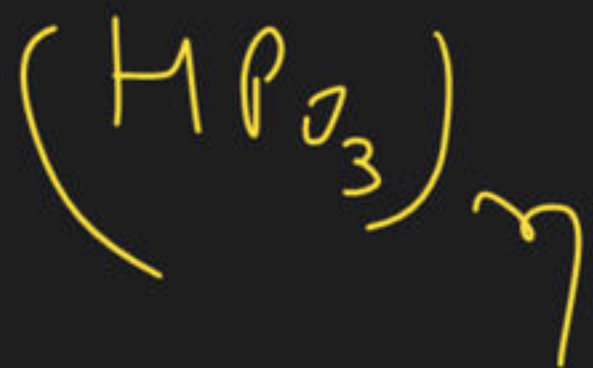


Prefix for oxyacid \rightarrow

(1) meta



When one water molecule is removed from one molecule of acid.

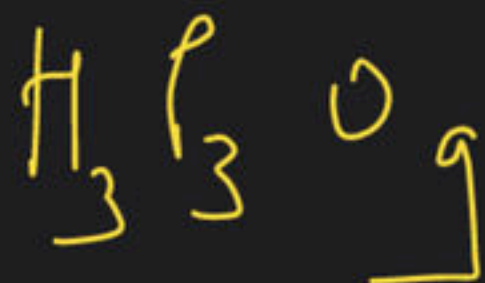
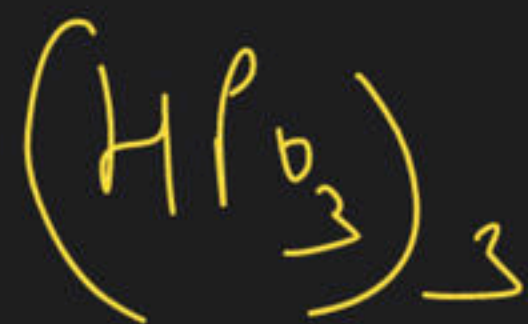


$n = 1, 2$ acid \times

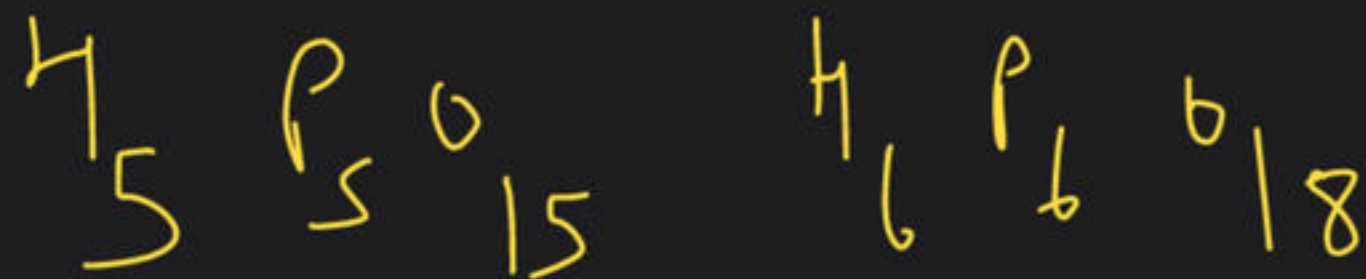
Proposed
Structure.



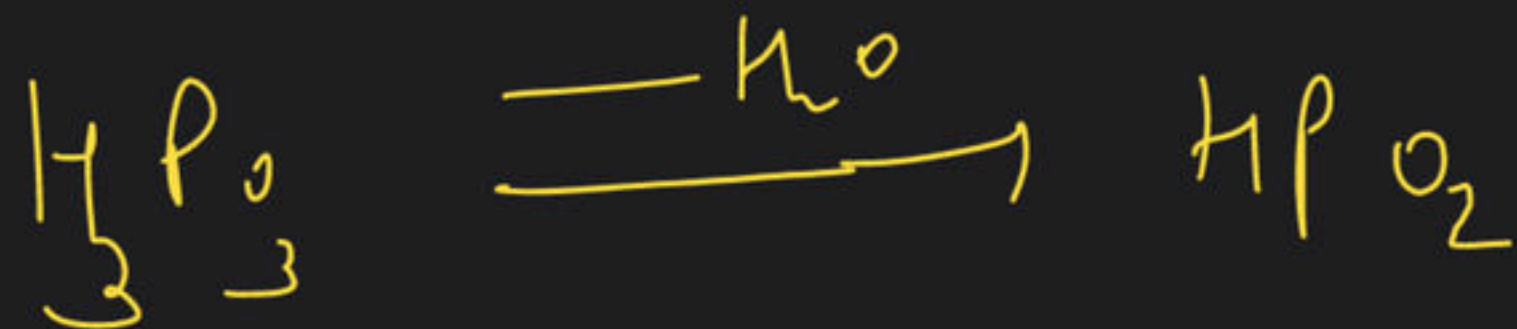
$n = 3, 4, 5, 6, \dots$



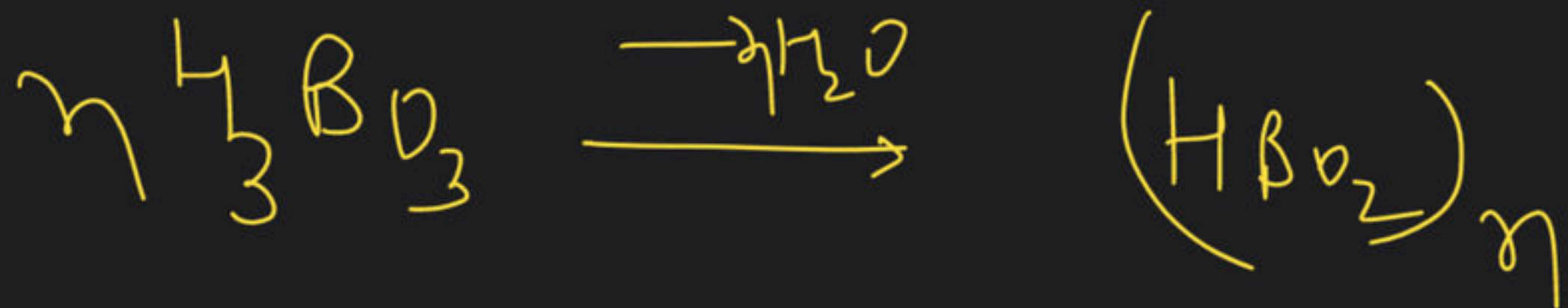
cyclic trimeta
phosphoric acid



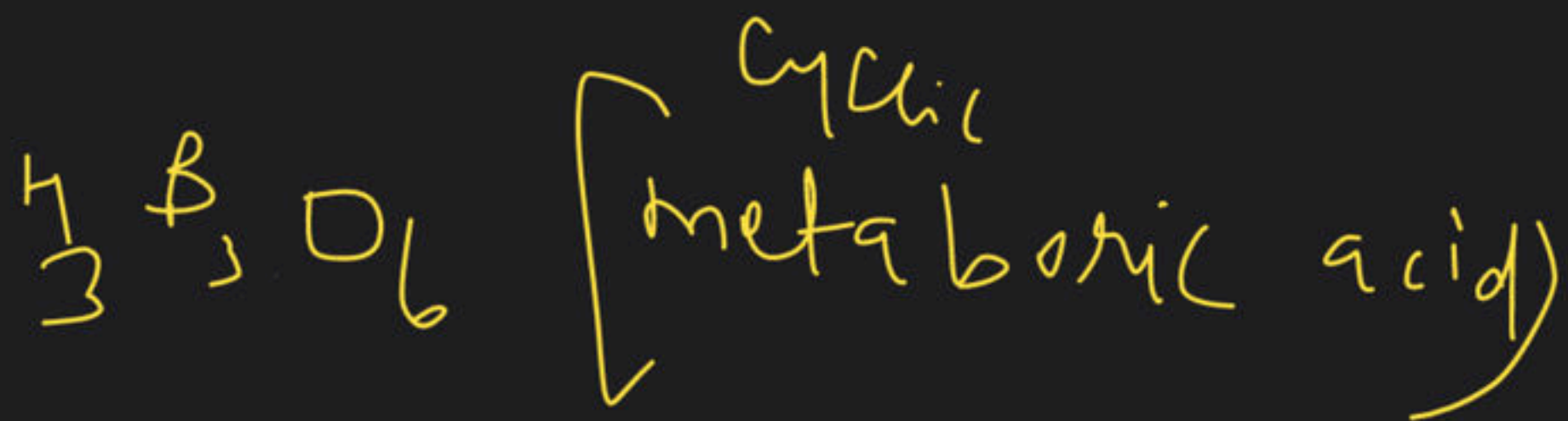
cyclic
hexameta
phosphoric acid



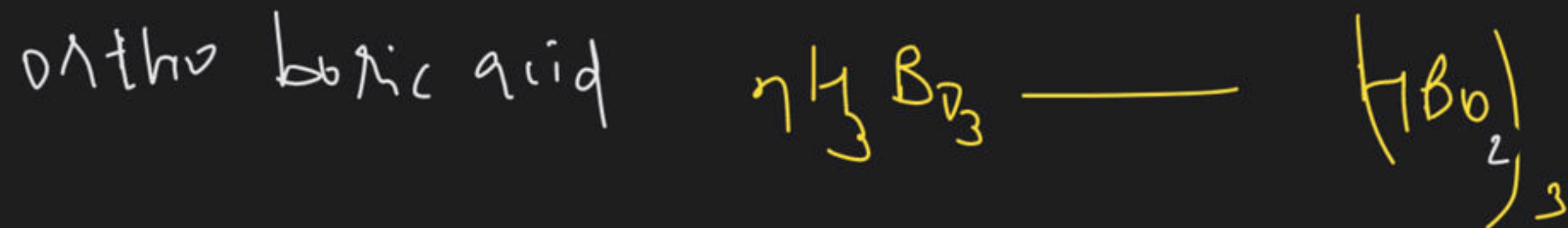
metaphosphorous acid



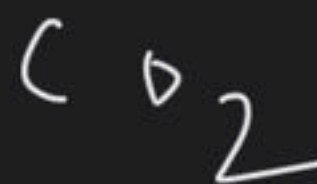
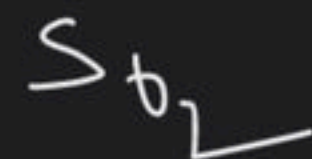
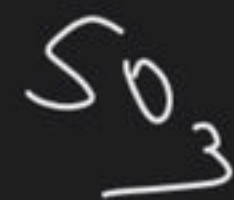
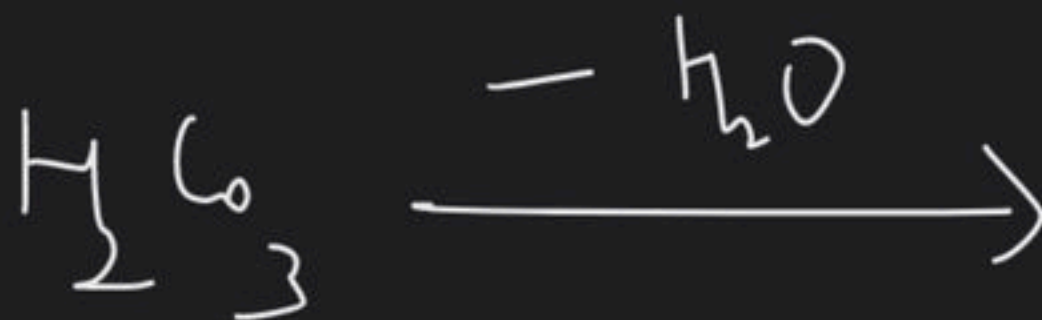
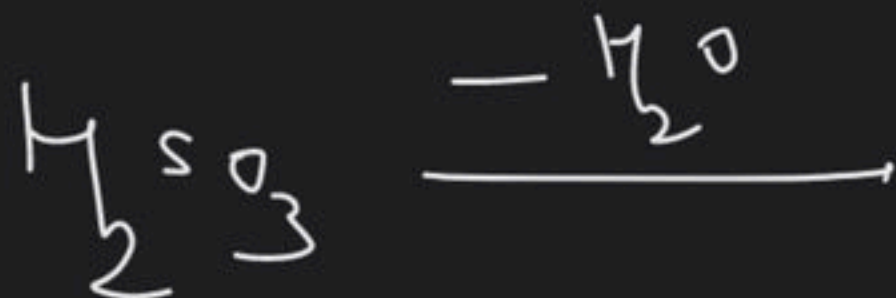
$n = \text{only } 3$



Ortho :- ortho prefix provided for those oxy acid
which can form meta prefix



Note :-

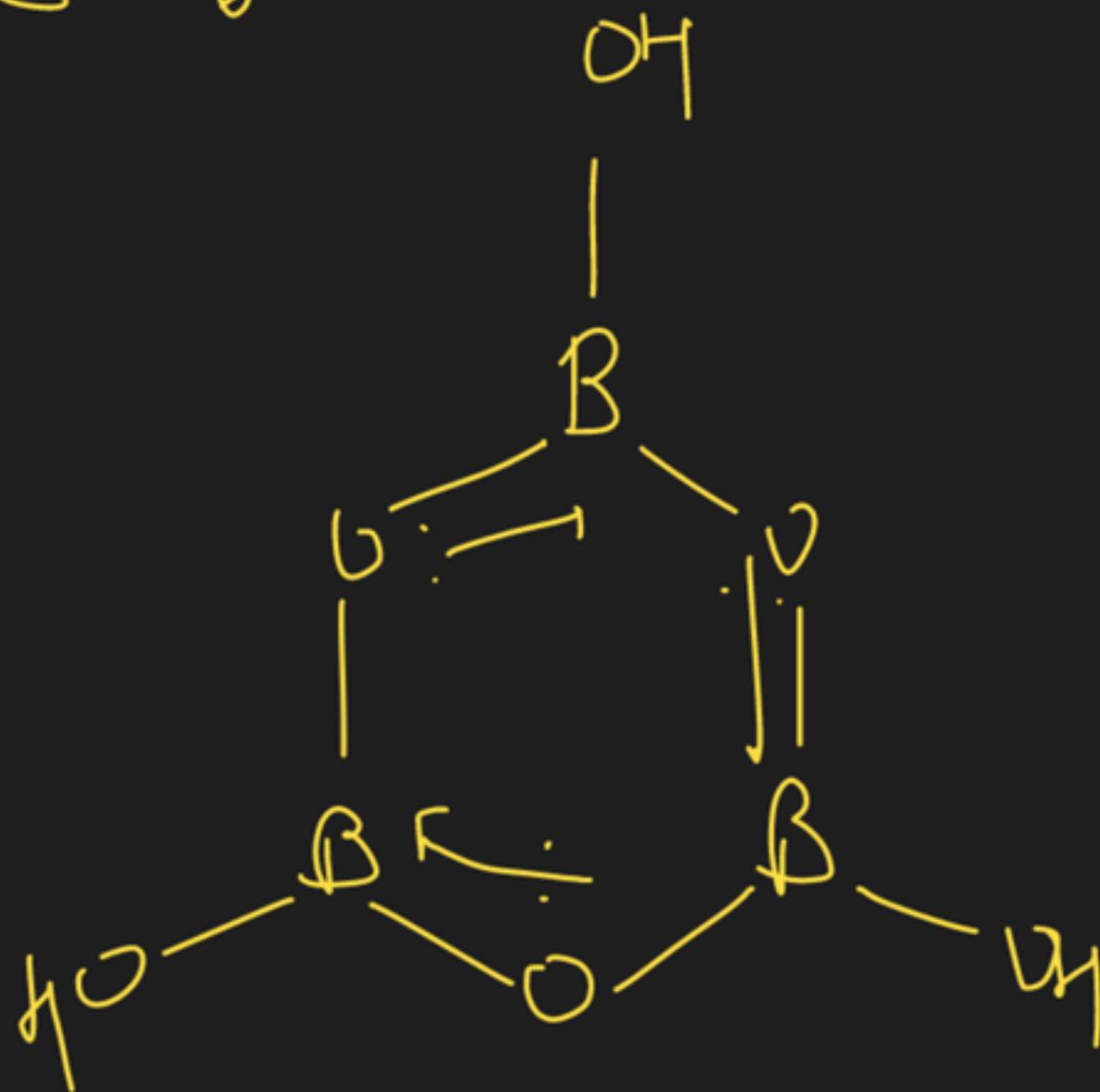


meta X

these are

anhydride





$$Sp^3 d^2$$

$$(dx^2 - y^2 dz^2)$$

$$dx^2 - y^2 dz^2$$

$$dx^2 - y^2 dz^2$$

▲ 7 • Asked by Sameer

 Vishal Joshi ✓
18.1k Followers

YOUR TEACHING IS AMAZING... SR THAN ANY



Dedicated to Vishal Joshi

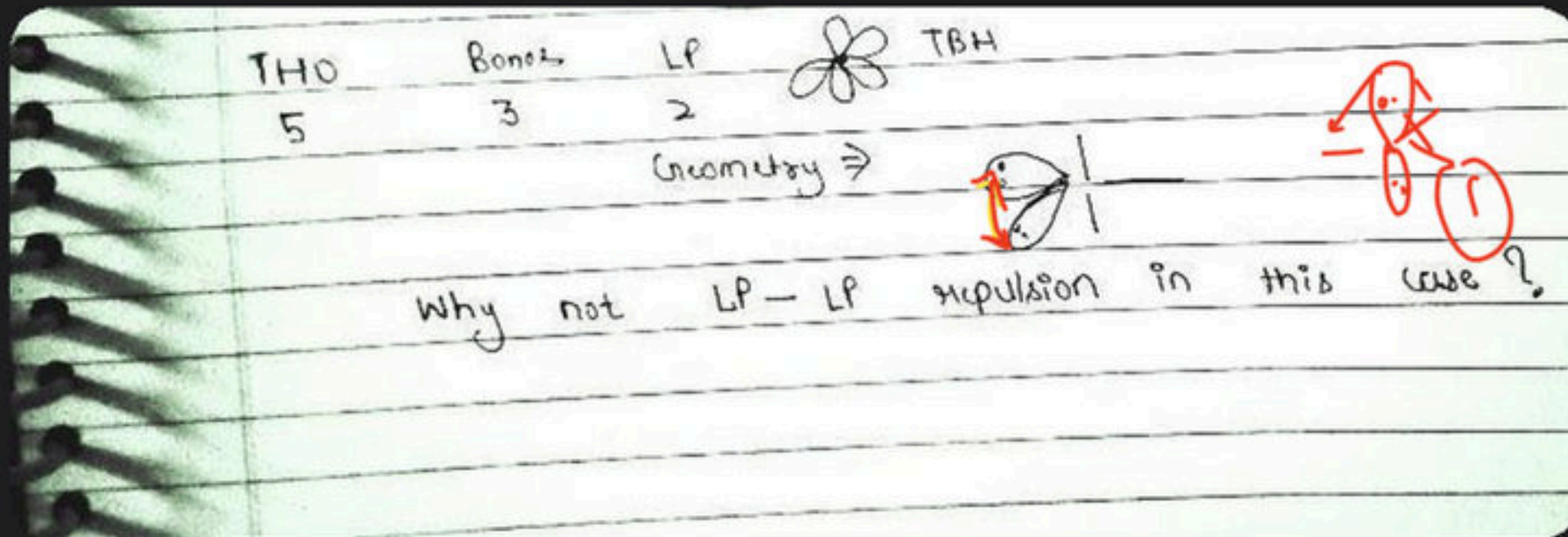
YOUR TEACHING IS AMAZING.... SR THAN
ANY OTHER TEACHER... AND A VERY GOOD
EVENING TO U SIR 🙏🙏🙏🙏🙏🙏

Share with friends:



▲ 3 • Asked by Atharv Ath...

LP - LP repulsion hoga to iska structure me LP ko dur rakhna chahiye n?



▲ 3 • Asked by Prasad

Sir isamai option kyu hai???

20. Choose the **CORRECT** statement about the structure of SO_2 .

(A) Two $2p_\pi - 3d_\pi$ bond

(B) Two $2p_\pi - 3d_\pi$ bond

(C) One $2p_\pi - 3d_\pi$ & one $2p_\pi - 3p_\pi$ bond

(D) It is hypovalent

