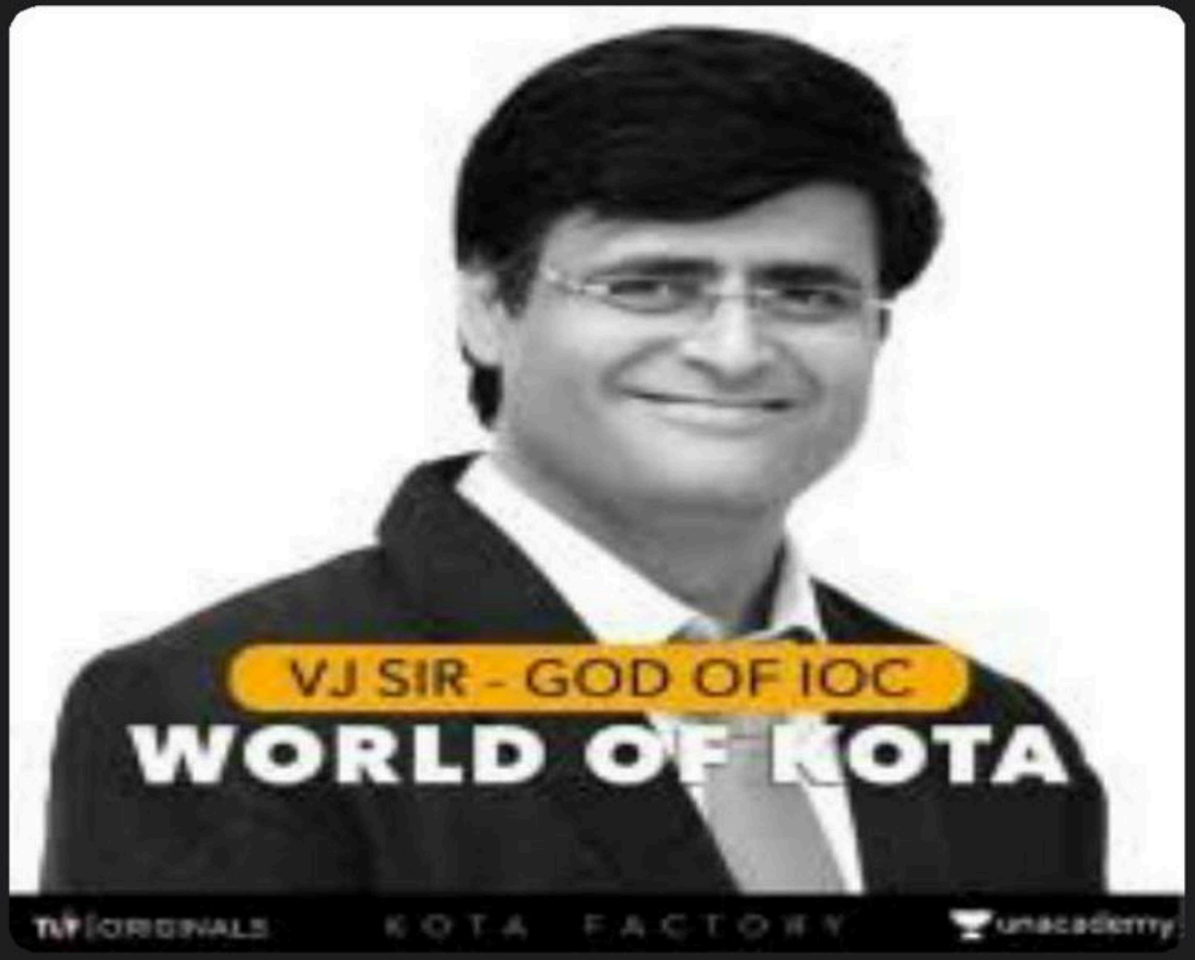
VSEPR - III

Course on Chemical Bonding for Class XI 2023

Vishal joshi • Lesson 11 • Sept 4, 2021

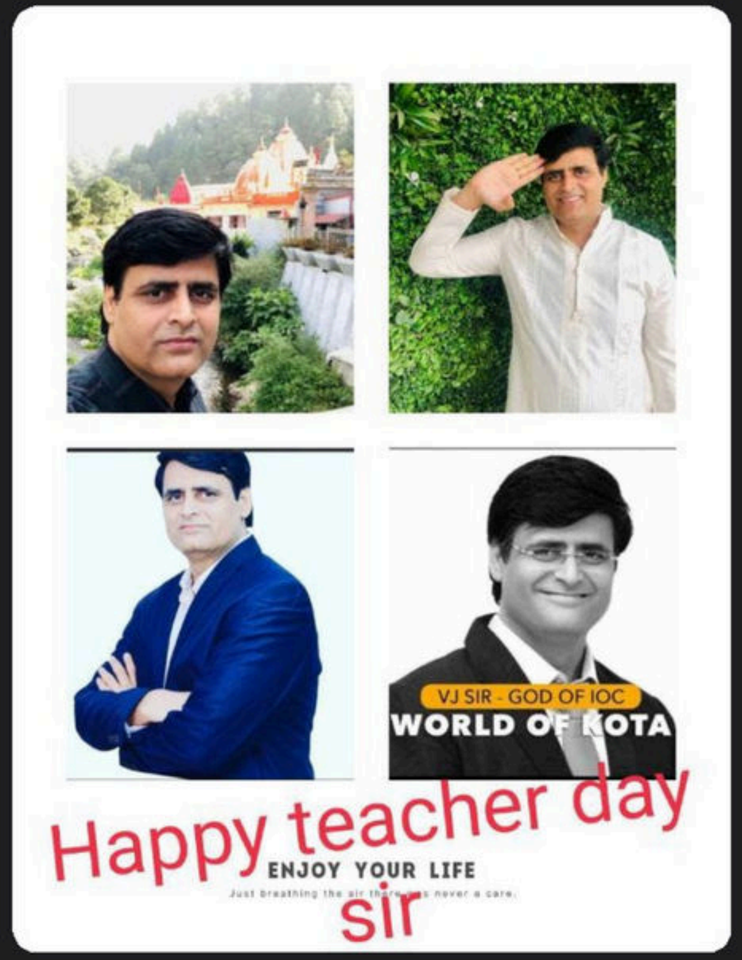
Question
from Roshan

Happy teacher day sir in advance



Question
from Adarsh

Please take me on vc



Question
from Swarnim

Hapy Teachers day sir

Question
from Kavya

Happy Teacher's day sir!

Question
from Akash

Happy teacher day sir

SUNDAY TIMES
OF INDIA

A *guru* to all

GENUINE POSITIVE CHANGE IN THE LIVES OF STUDENTS IS WHAT GIVES VISHAL JOSHI REAL HAPPINESS

In today's times it is not only hard to find teachers, who have broad knowledge of their subject matter and an enthusiasm to convey their knowledge in an effective manner but also have a caring and warm attitude towards their students and a desire to make developmental changes in the lives of their students. Vishal Joshi, one of the five directors of Nucleus, an institute for IIT-JEE demonstrates such commitment towards his profession and its solitude.

Vishal went to Swami Vivekanand School but after his father died in 1995, he had to leave for his mother's village, Awan, where he pursued the rest of his schooling. He completed his BSc. and MSc. from Government College, Kota. He started his career providing tuition to his cousin. As skill and talent find their way out anyway, vishal realised his t built strength and passio for teaching. With favourable outcomes, he gained popularity gradually and then opportunities were all around him. He started teaching in a coaching institute and then in schools.

Vishal believes that comparison is the biggest enemy of a student. One should take competition and comparison as two opposite terms. A competition helps in the personal growth of the students but when it turns to comparison with others, it only demoralizes

KP
MYN

COMPARISON IS THE BIGGEST ENEMY OF A STUDENT. A COMPETITION HELPS IN PERSONAL GROWTH BUT IT CAN DEMORALIZE WHEN IT TURNS TO COMPARISON

the part of the students that they share their problems with their teacher and approach them to seek guidance. From there one delights the role of a teacher," adds he. He also puts emphasis on personal attention, which should accompany teaching all the way. He says that, "Imparting knowledge is not complete in itself without personal care. For students might not be able to receive the knowledge a teacher gives due to some factors, which a teacher needs to

vides a hand when we need it the most. Having immense faith in God, Vishal has helped in the construction and renovation of some temples as well.

He envisions his institute to be the best in terms of the quality of education it provides. "I believe to serve small but best. When students come here, they should get the best of everything," says he.

Vishal says that he advises parents that they should not scold a child when they fail to get the expected. They should understand them and believe that there are innumerable ways of finding success and opportunities for those who work hard. He says, "We should not just study for a higher degree, handsome package or luxury but for something that is above all that. The purpose is to really find ourselves and get to where we are supposed to be."

— Shweta Changlani

Happy teacher day SIR

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Question
from Ansh

Happy Teachers day in advance sir ....Apna aashirwaad banay rakhiyega....iss photo mein aap boht acche lag rhe

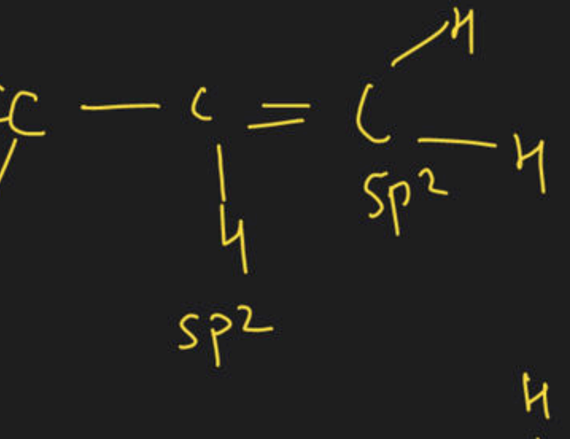
Question

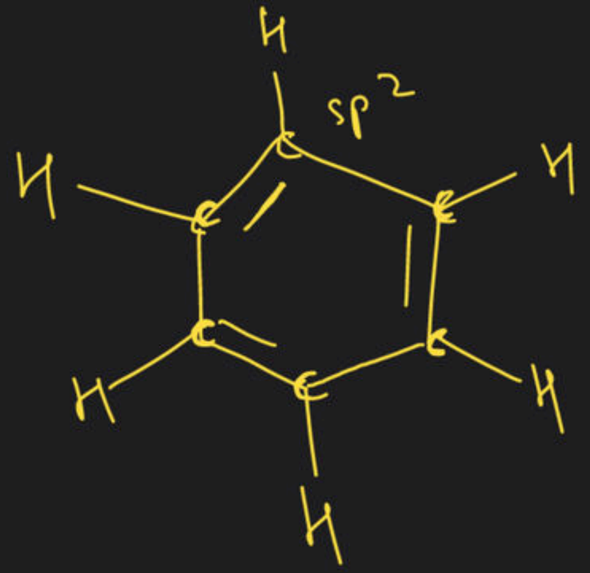
from Ashutosh Y...

Pranaam sir happy teacher day advance

Question
from supreet

happy tr day

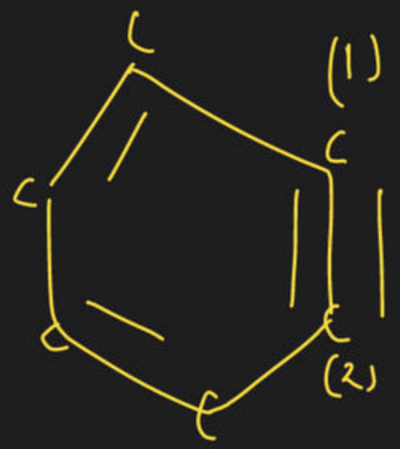




benzene

all atoms are sp^2 hybrised in benzene.
False

all Carbon atoms are sp^2 hyb. in benzene



C_3 C_4 C_5 C_6

sp^2 sp^2 sp^2 sp^2

$C_1 = sp^2$

$C_2 = sp^2$

all atoms have same hyb. in benzyne

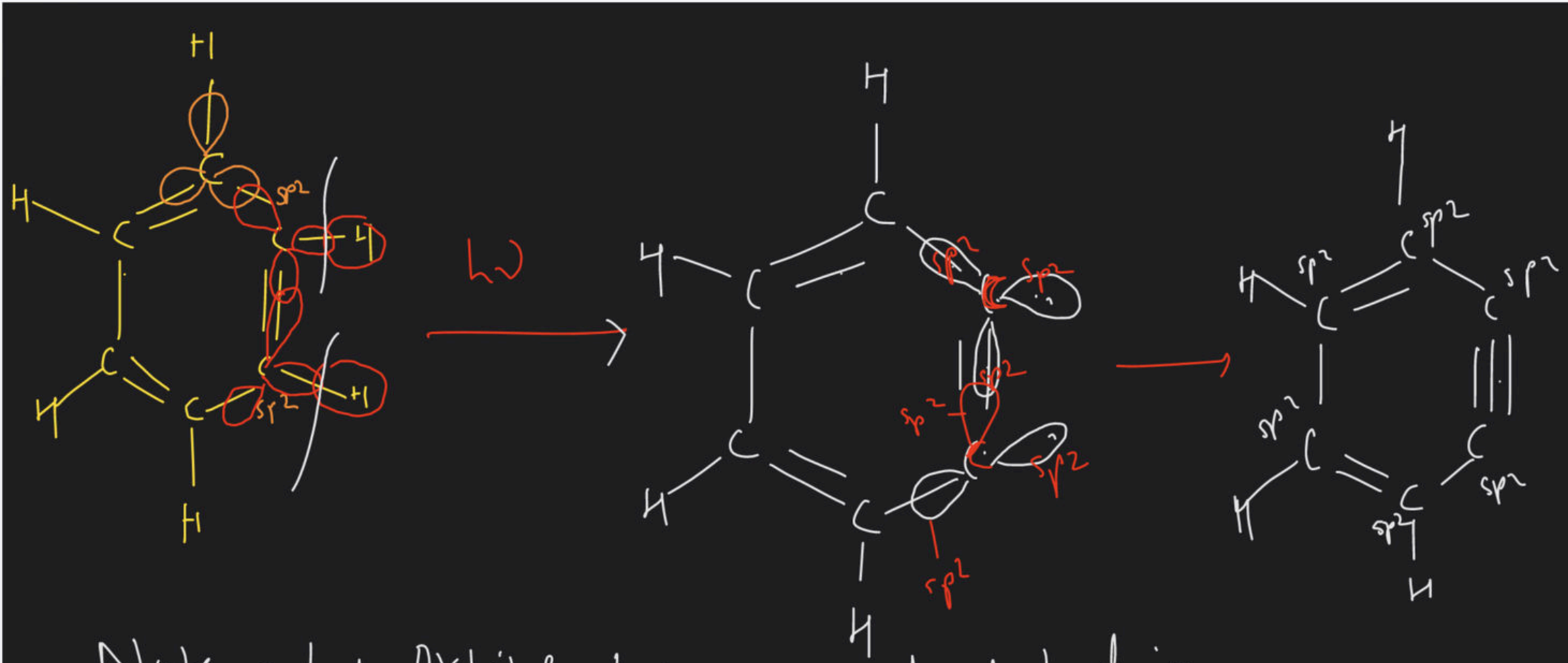
(F)

first hyb. followed by overlapping

T.H.O = no of σ bonds + no of l.p

Trick

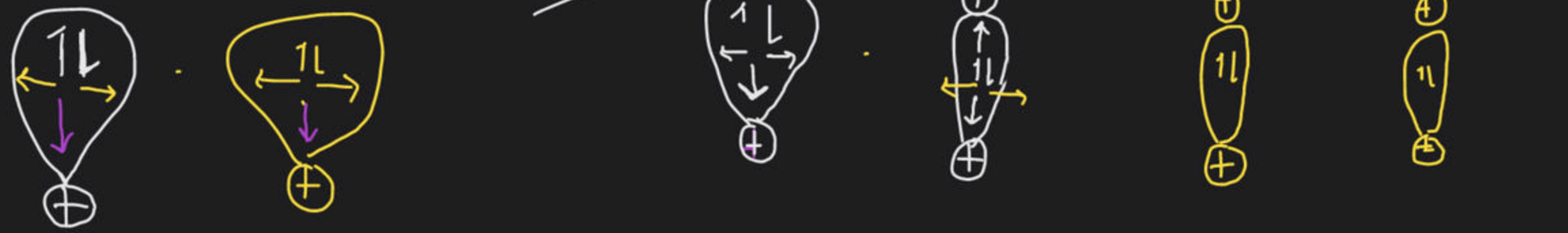

sp^2
C
C
sp^2



Note : hyb. Orbital forms σ bond but in benzyne they form π bond also

V.S.E.P.R (minimum rep. theory) (rep. order)

$l \cdot p - l \cdot p \rangle\!\rangle\ l \cdot p - B \cdot p \rangle\!\rangle\ B \cdot p - B \cdot p$

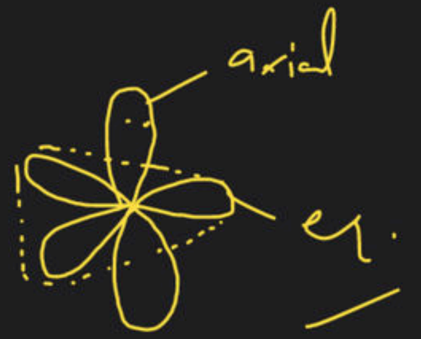


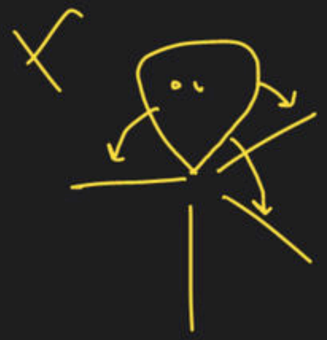
A — B.

all carbon atoms have same hyb. in benzyne

T / f

sp



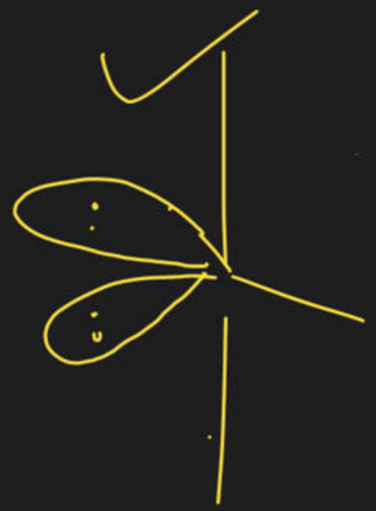


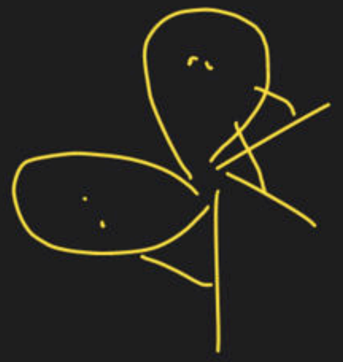
at 90

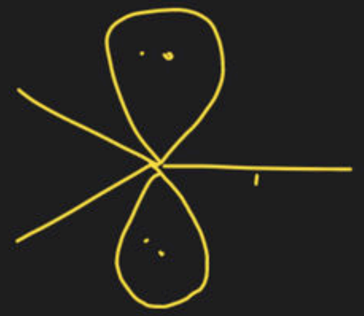
l.p − B.p = 2

l.p − B.p = 3

See - Saw







At T_1:

$$l \cdot p - l \cdot p = 0$$

$$l \cdot p - B \cdot p = 4$$

Bent T shape

$$l \cdot p - l \cdot p = 1$$

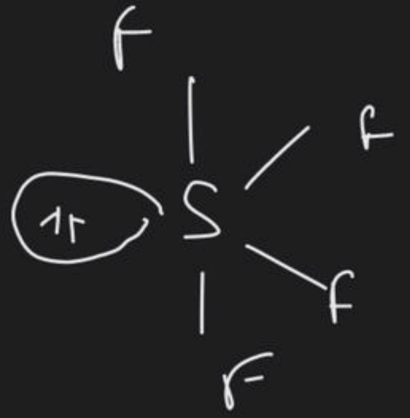
$$l \cdot p - B \cdot p = 3$$

$$A \cdot p - A \cdot p = 0$$

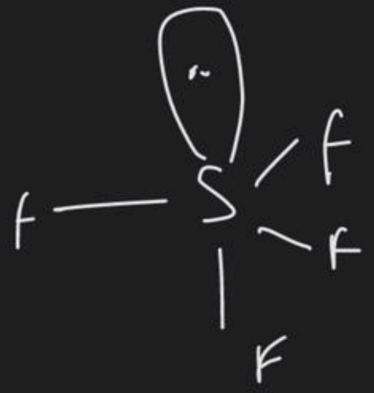
$$A \cdot p - B \cdot p = 6$$

Que Which of the following Geometry of SF_4 is correct

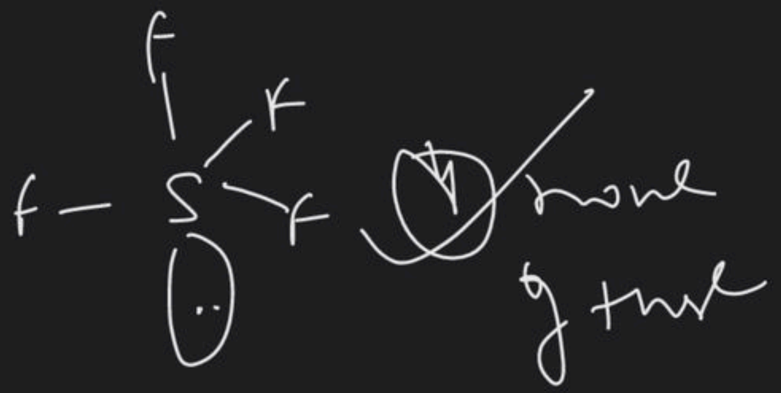
(1)



(2)



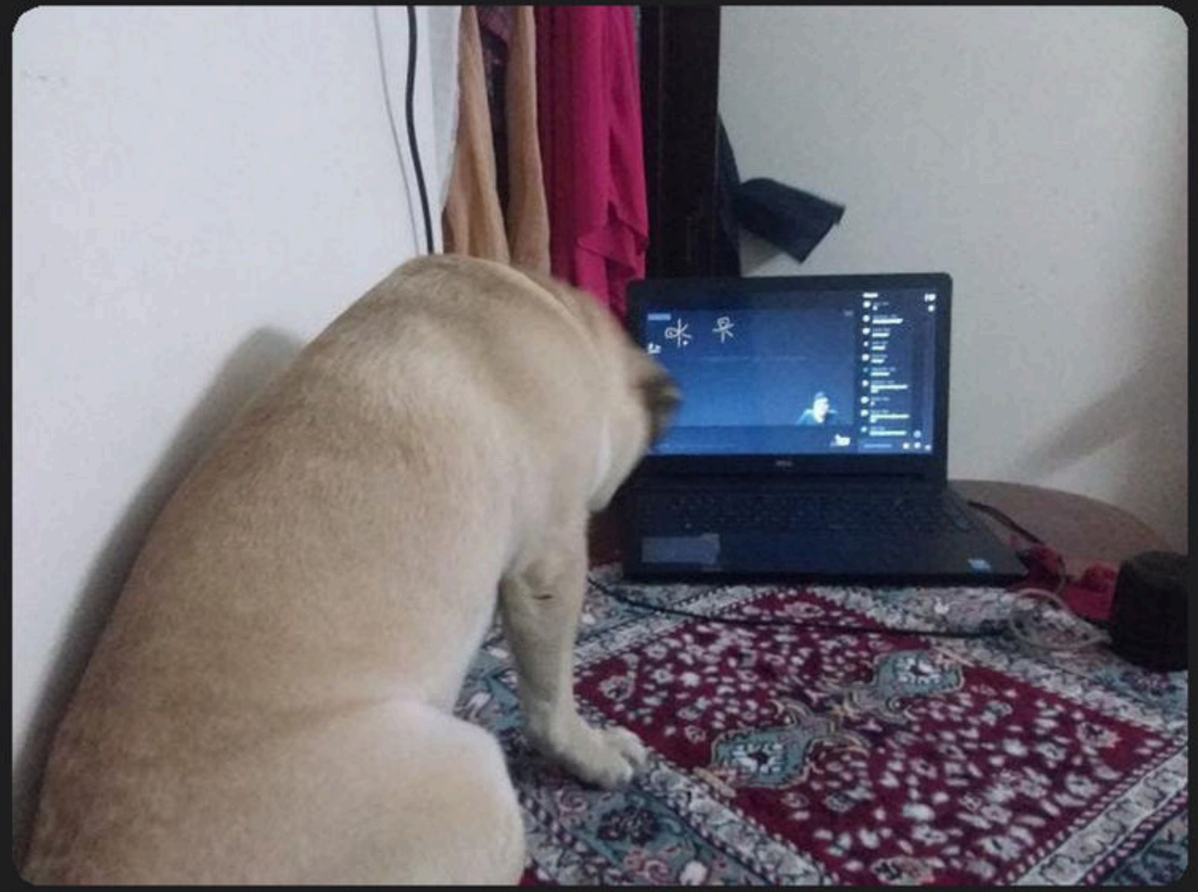
(3)



Question

from tavyan

Sir your most dedicated student



Question
from Anjali

Sir doubt