

Polar.ity - electronegativity difference

Polar \Rightarrow

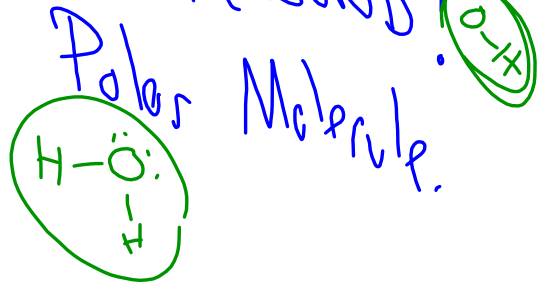
$F = 4.0$ highest
"Cs" lowest ~ 0.4



4 total sites
"Tetrahedral"

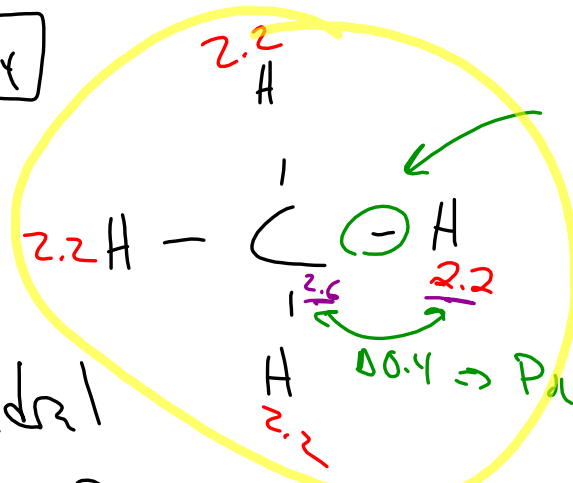
VSEPR

POLAR BOND!



Nov 15-7:39 AM

CH₄

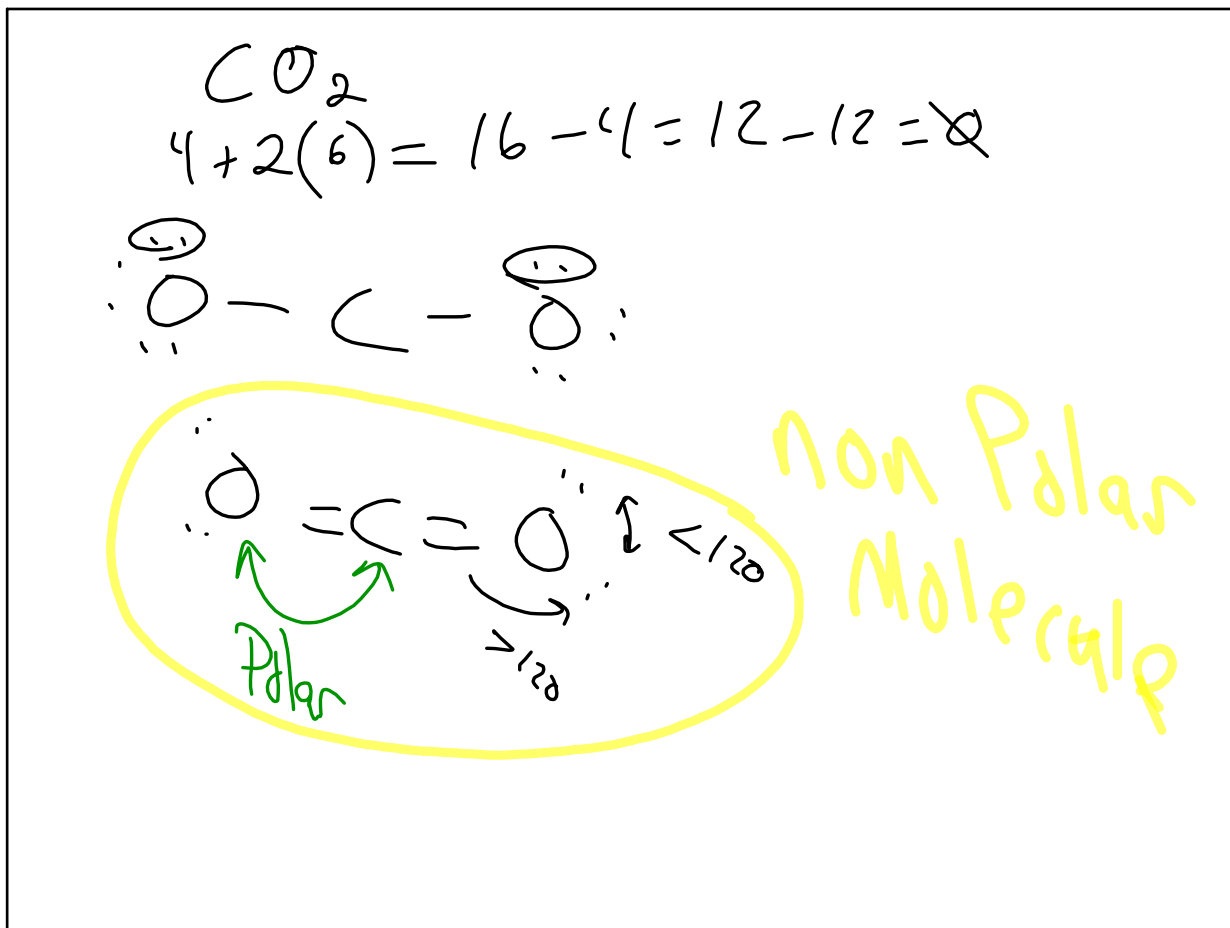


Polar Bond.

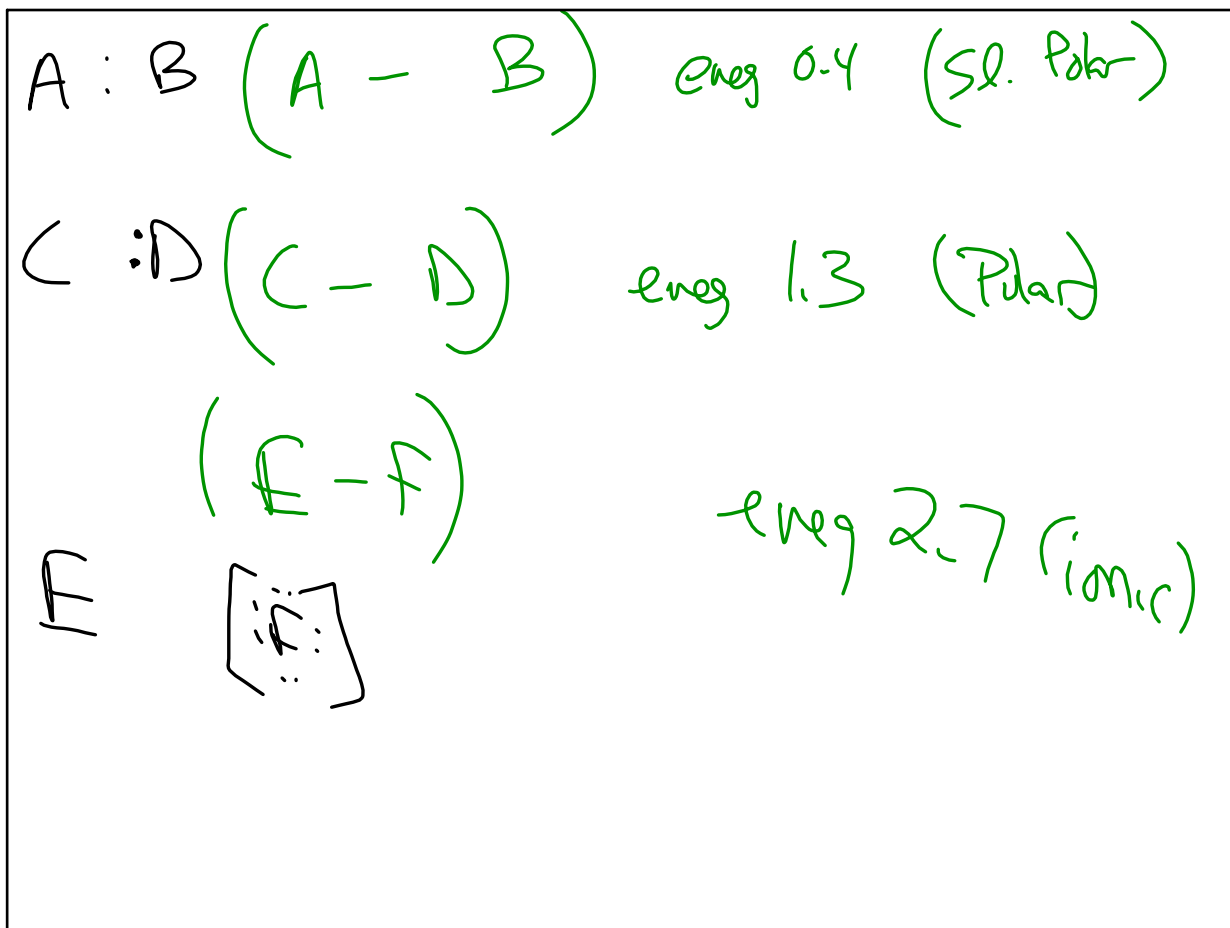
Molecule is Non-Polar

Tetrahedral
Perfectly Symmetrical

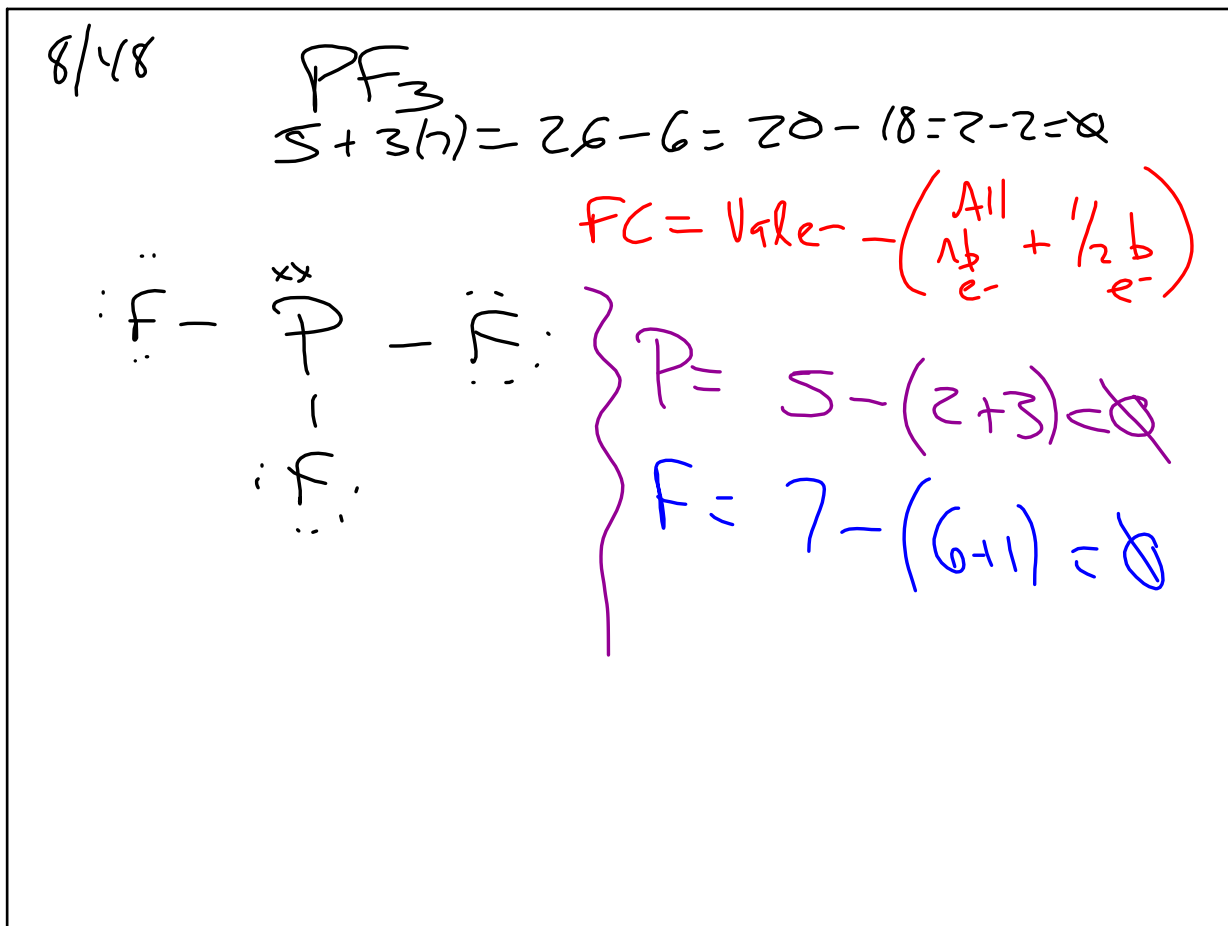
Nov 15-7:56 AM



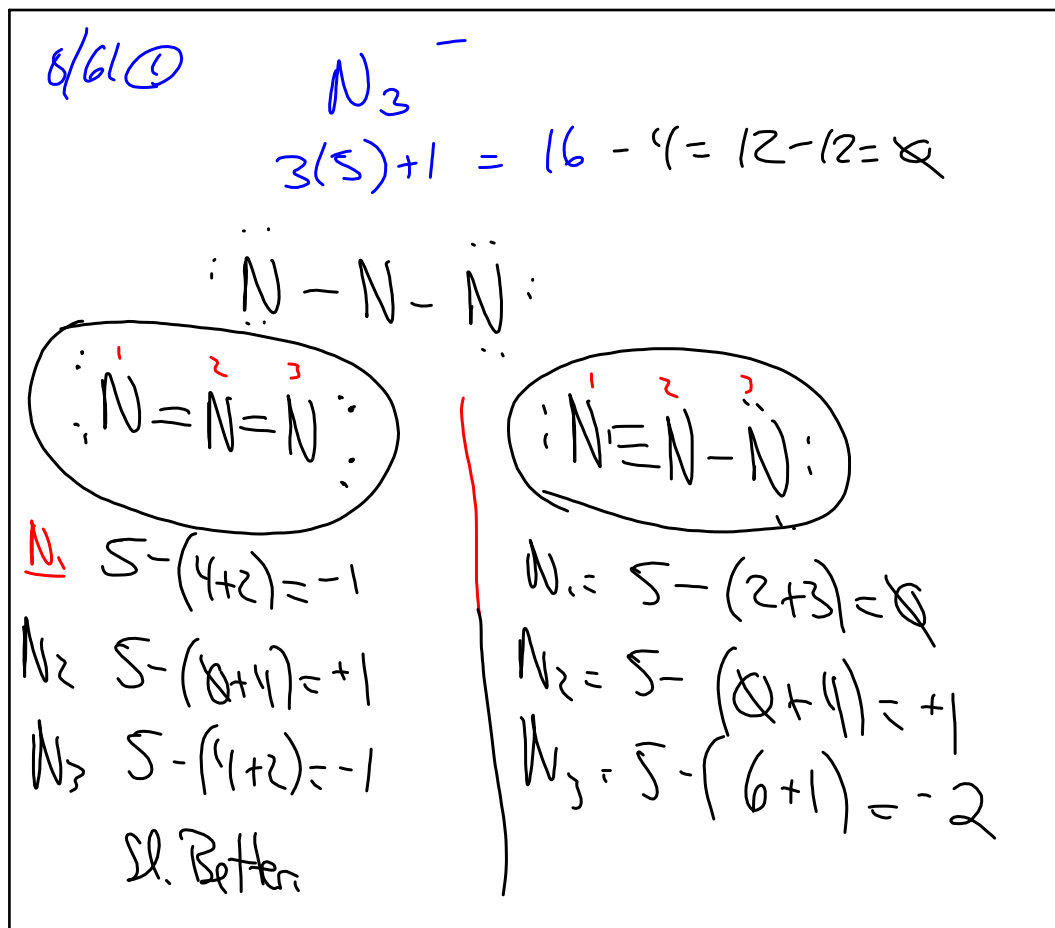
Nov 15-8:01 AM



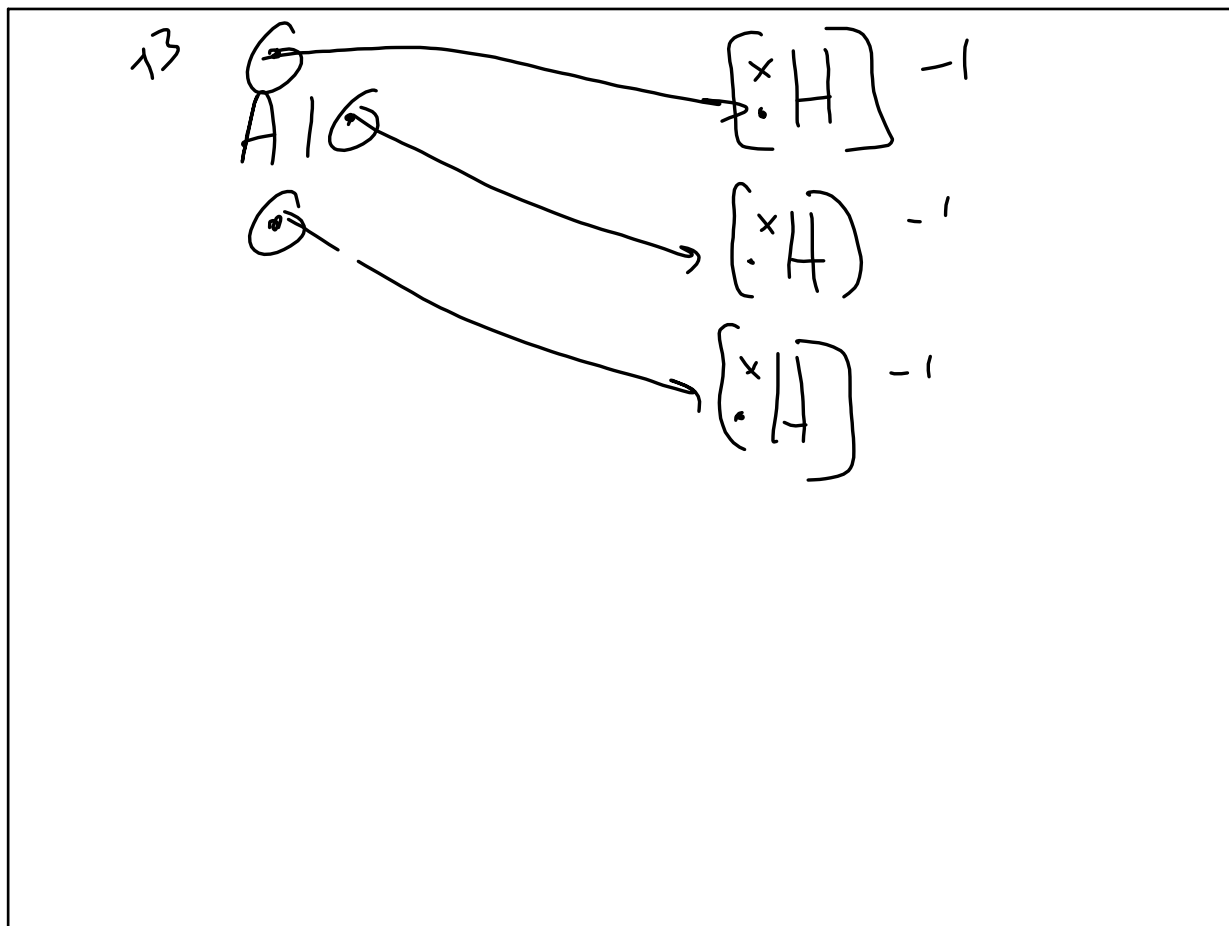
Nov 15-8:07 AM



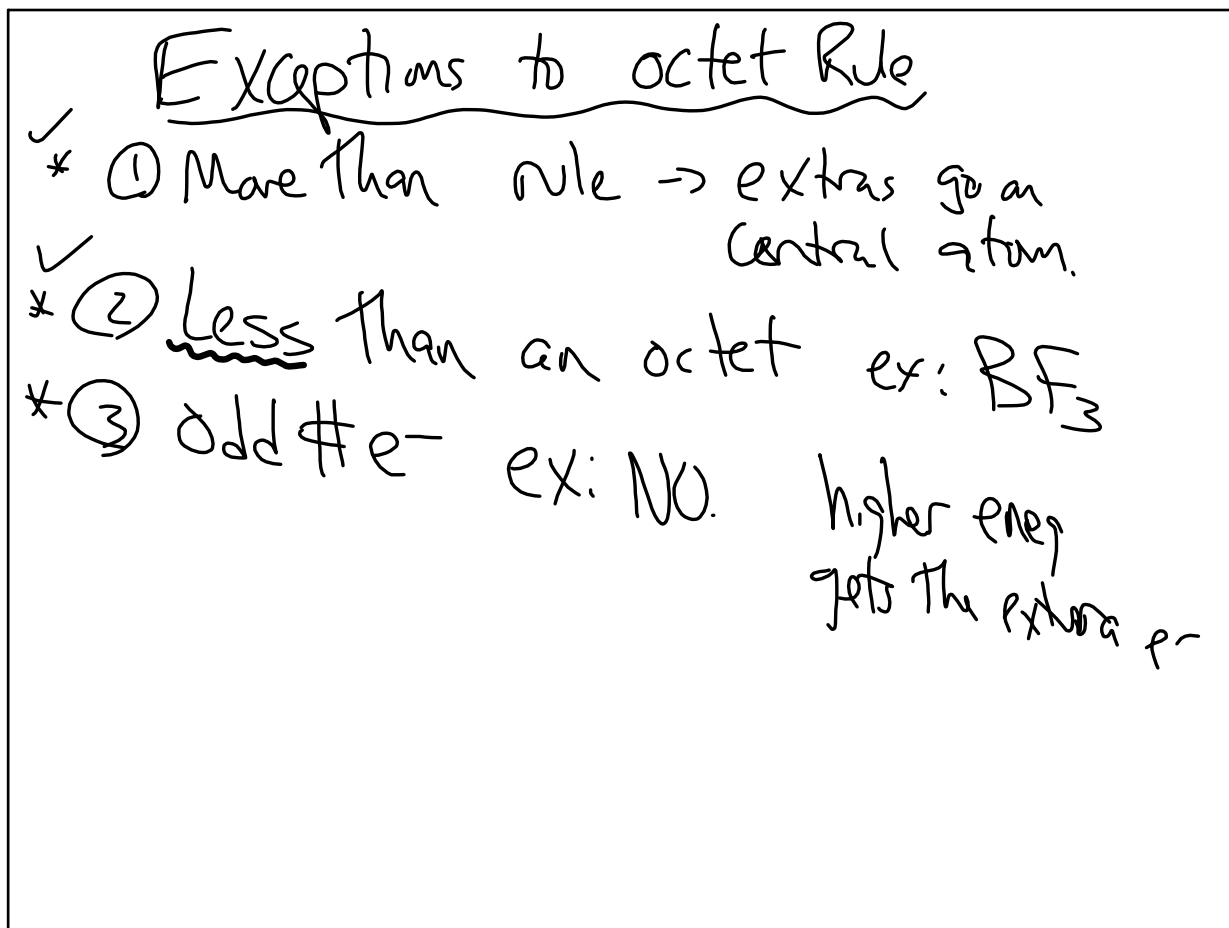
Nov 15-8:11 AM



Nov 15-8:18 AM



Nov 15-8:23 AM

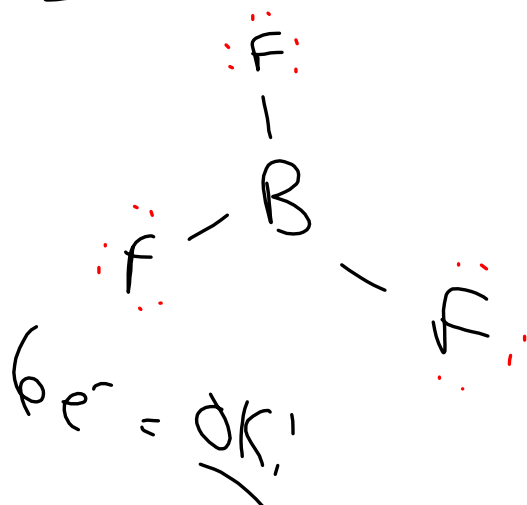


Nov 15-8:24 AM

② less than an octet



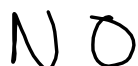
$$3 + 3(7) = 24 - 6 = 18 - 18 = 0$$



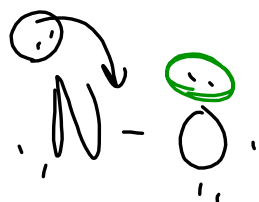
Problem F highest
eneg. does NOT
Want to give up e⁻
No
i No!
F:
N/pt

Nov 15-8:28 AM

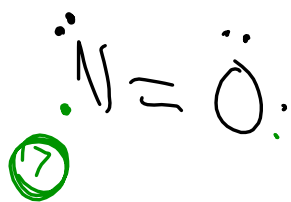
③ odd # e⁻



$$5 + 6 = 11 - 2 = 9 - 9 = 0$$

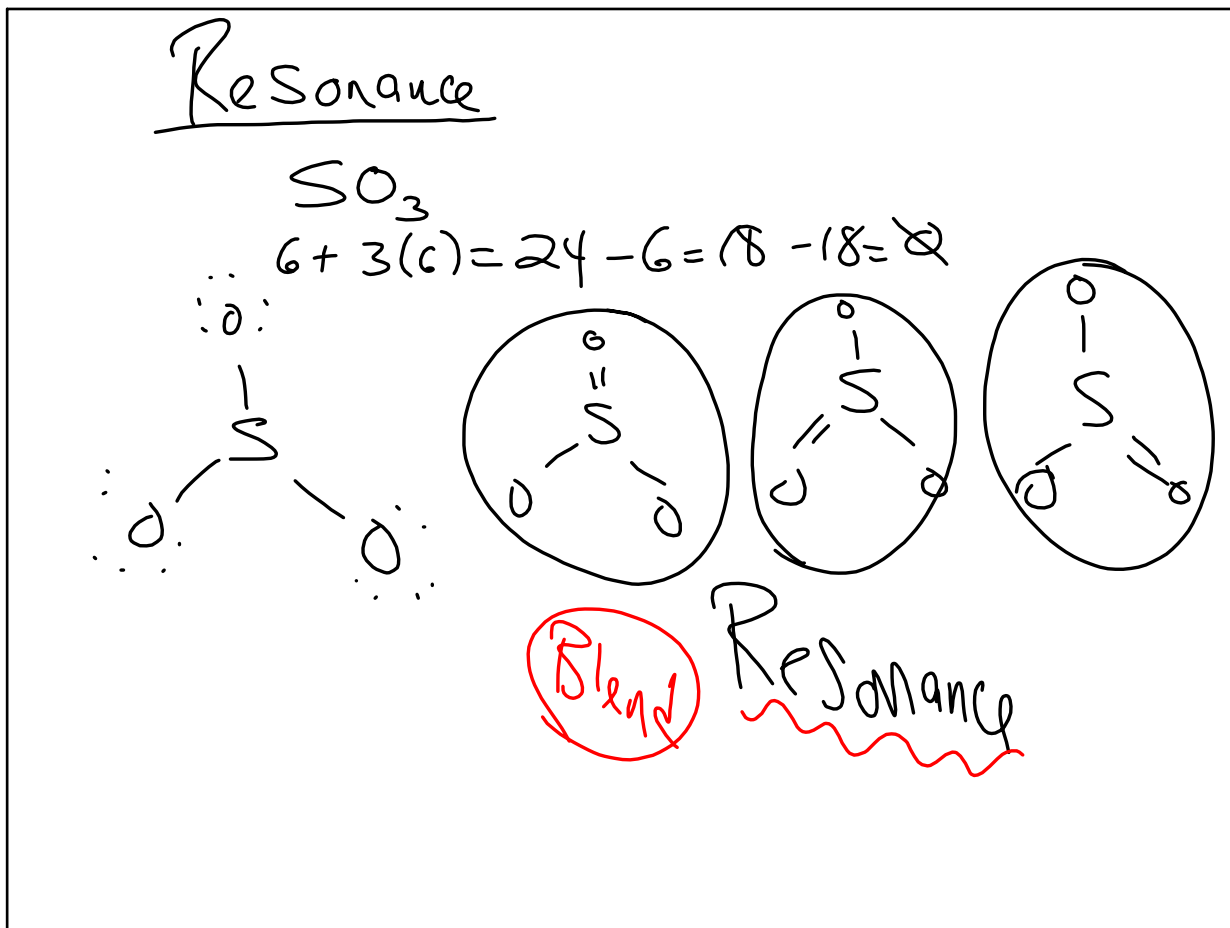


Resonance

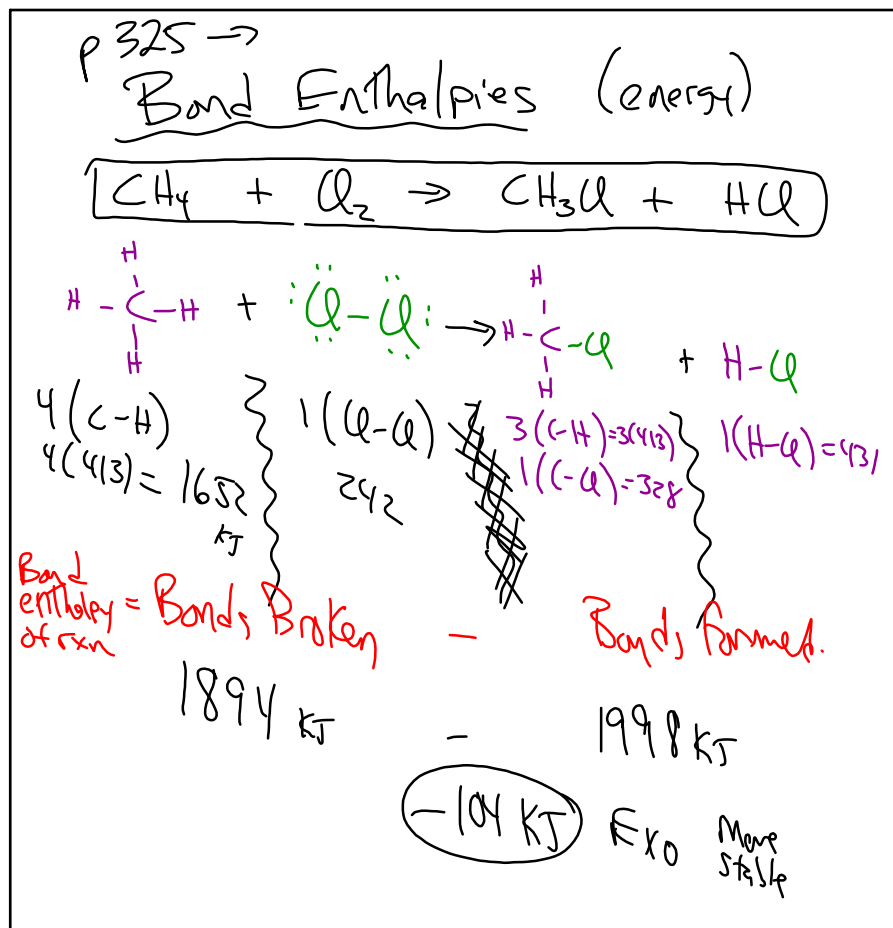


O greater eneg
gets EA, IFF
More p-

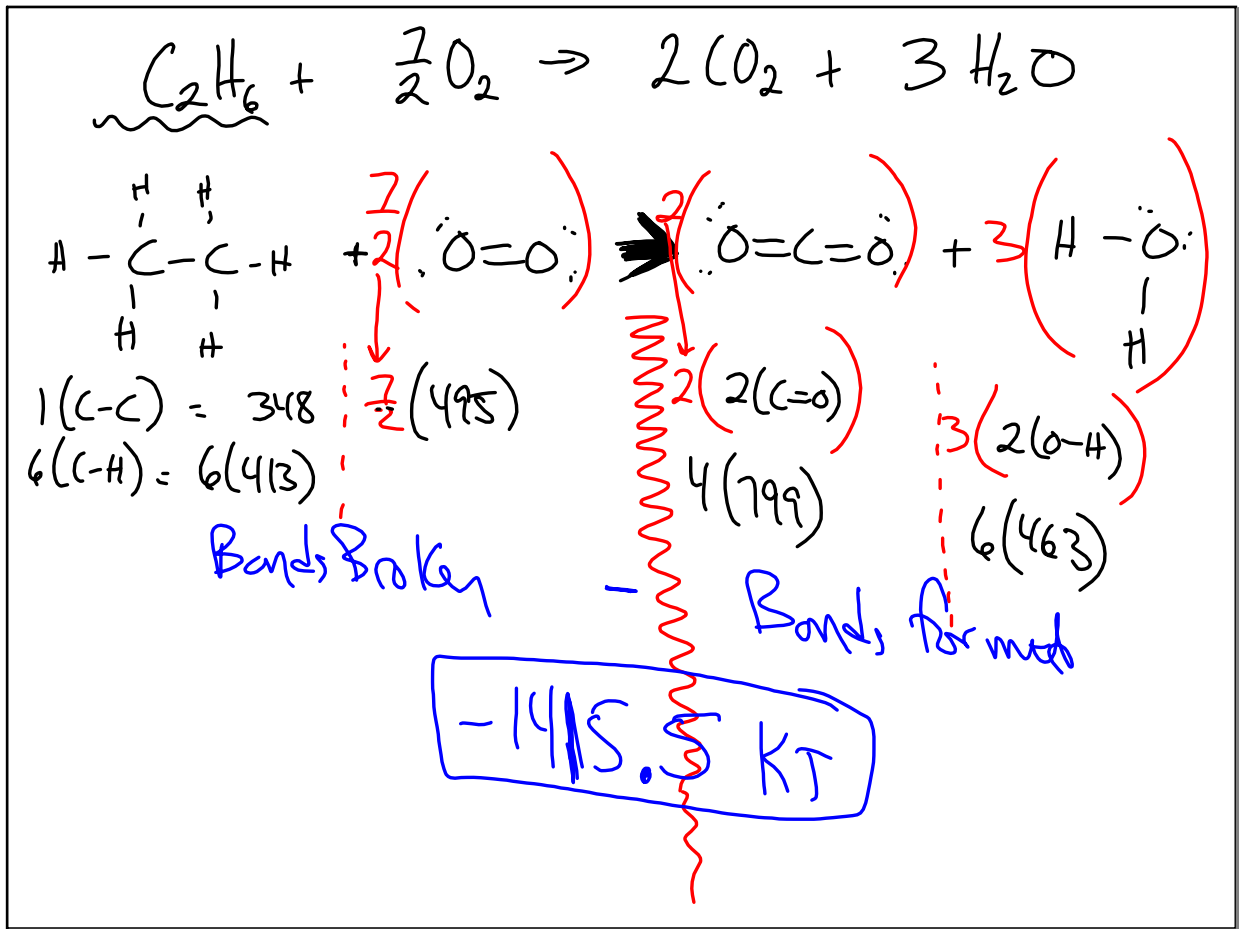
Nov 15-8:35 AM



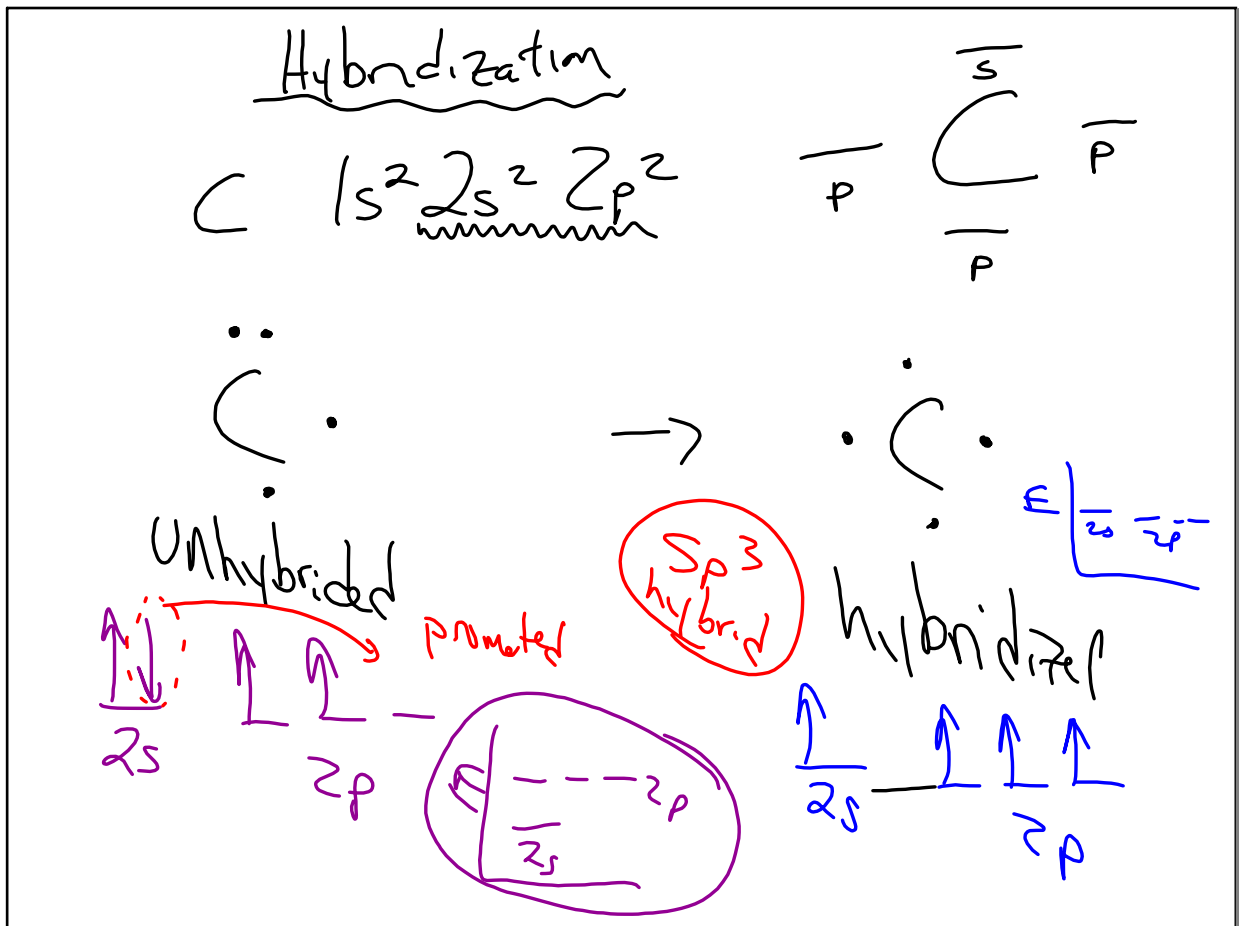
Nov 15-8:39 AM



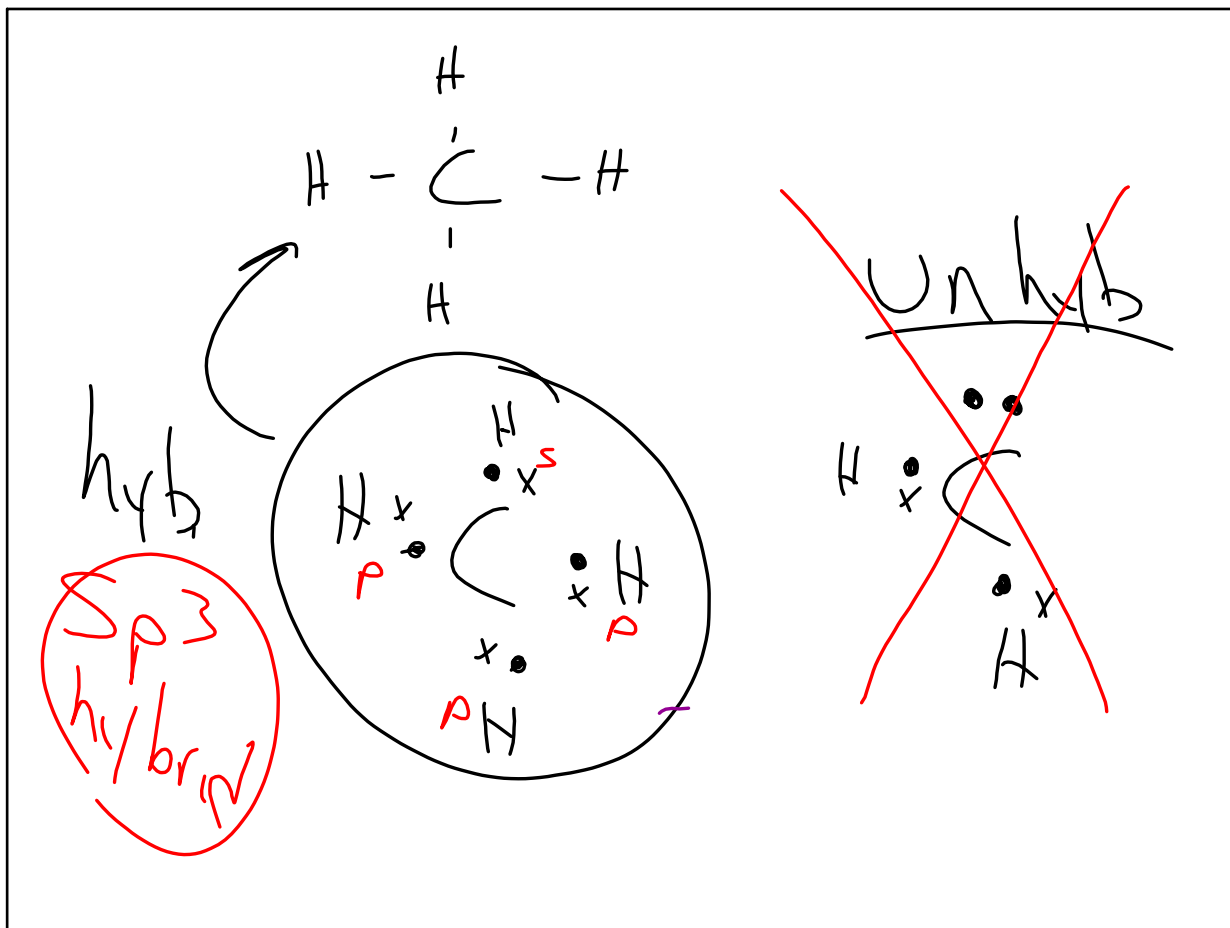
Nov 15-8:43 AM



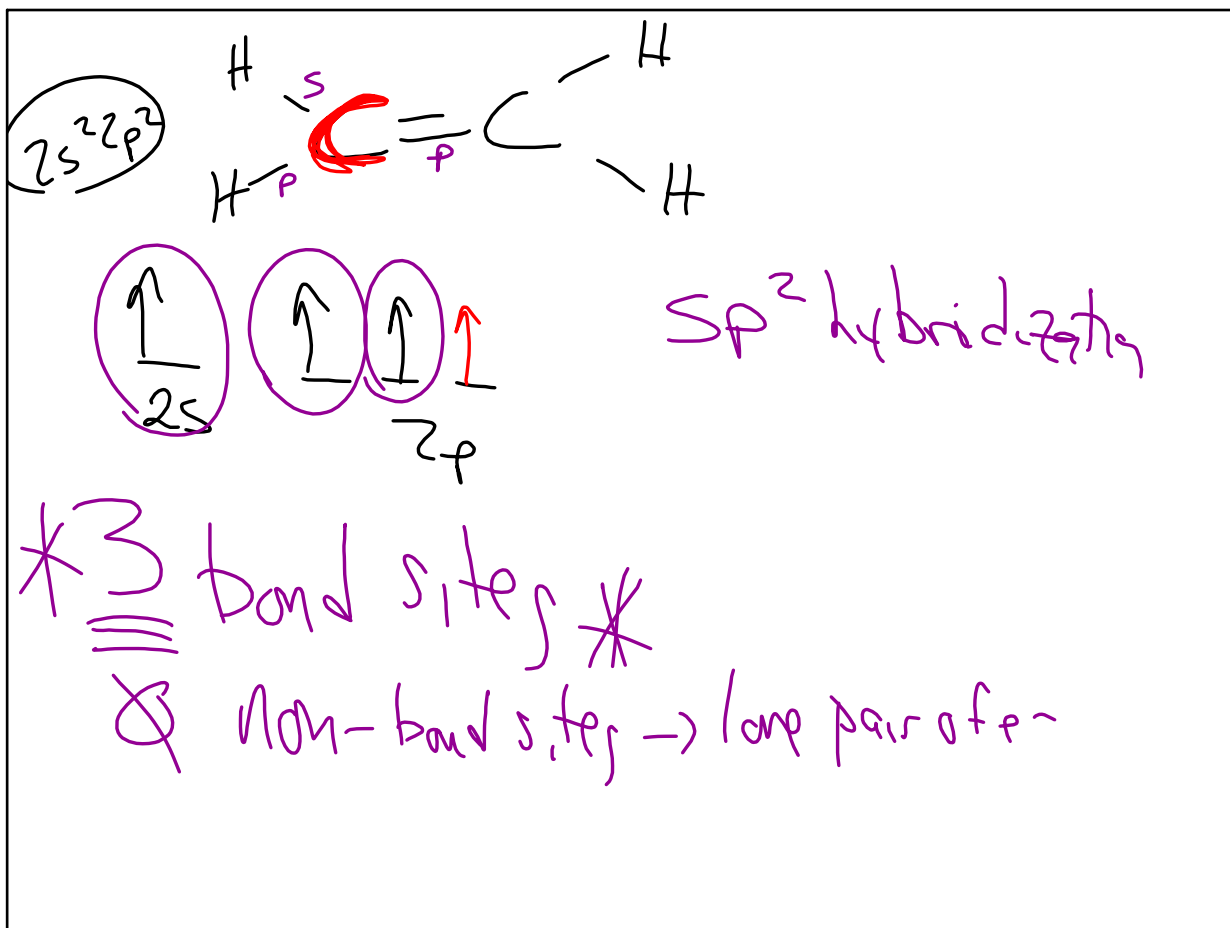
Nov 15-8:54 AM



Nov 15-9:03 AM



Nov 15-9:07 AM



Nov 15-9:09 AM

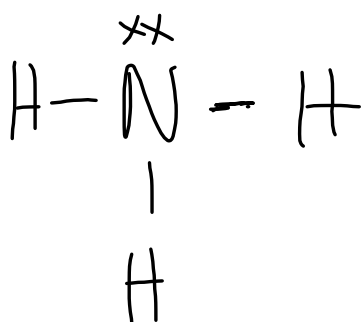
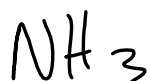


2 bond
& non-bond

2 DUKI

Sp hybrid

Nov 15-9:12 AM

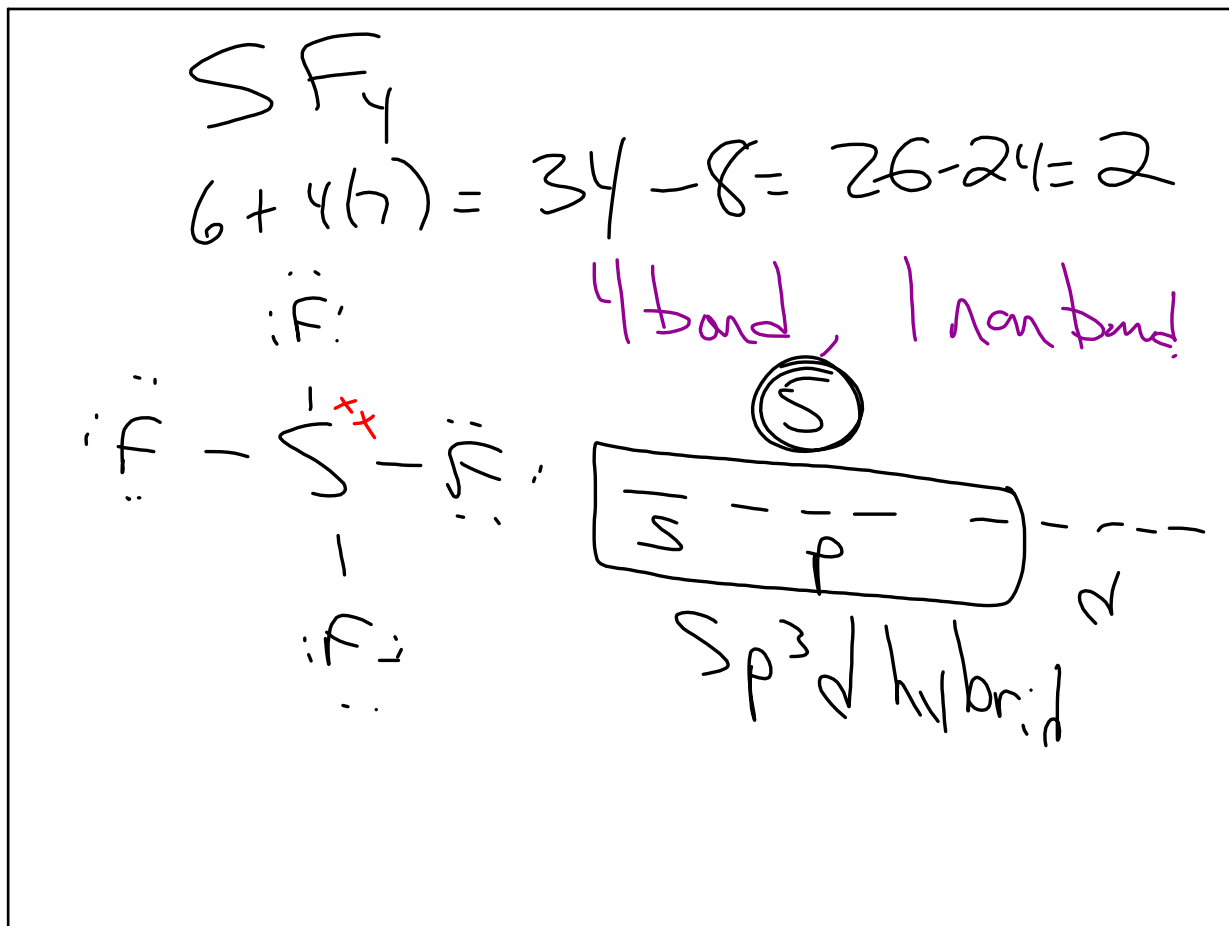


3 bond
1 lone pair
4



Sp³
hybrid

Nov 15-9:12 AM



Nov 15-9:13 AM