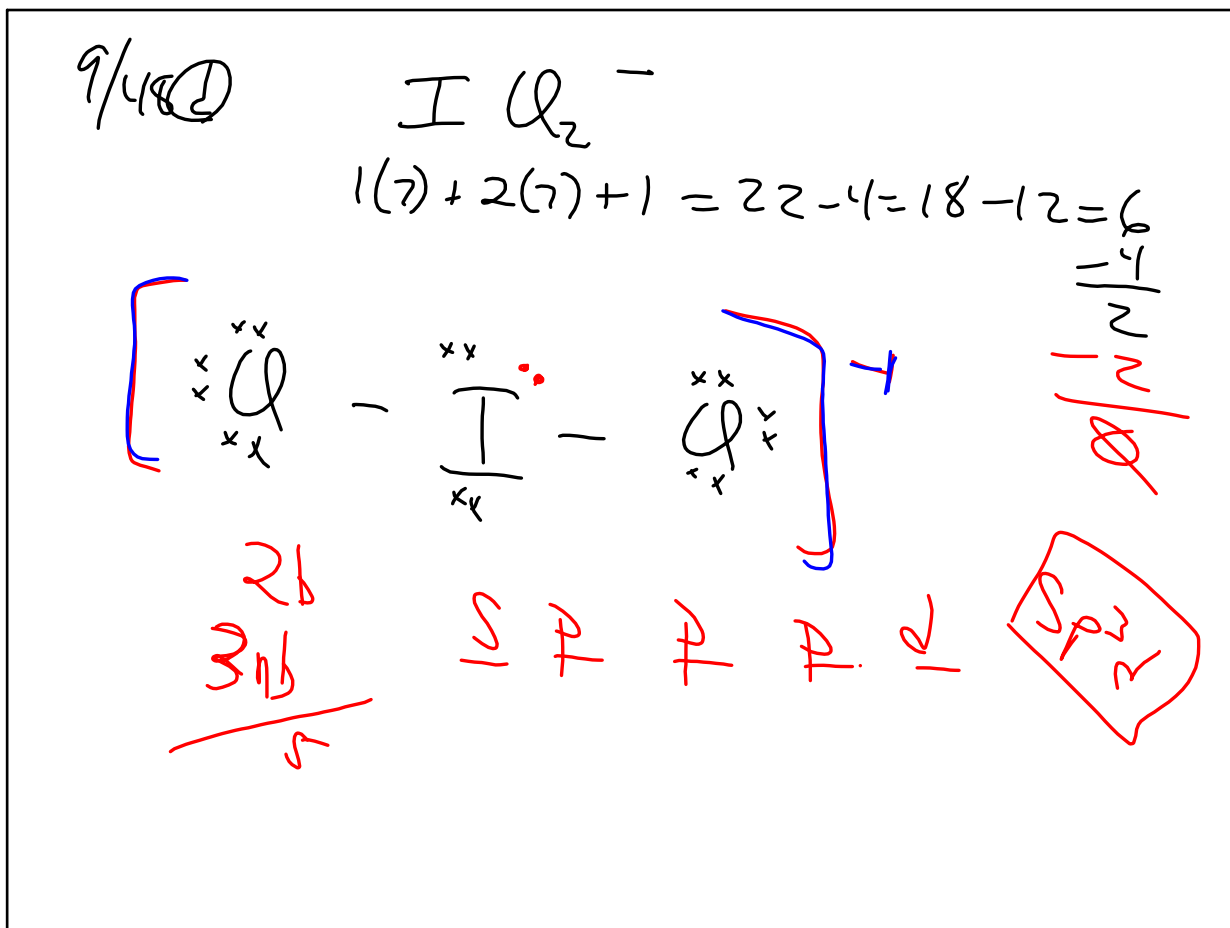
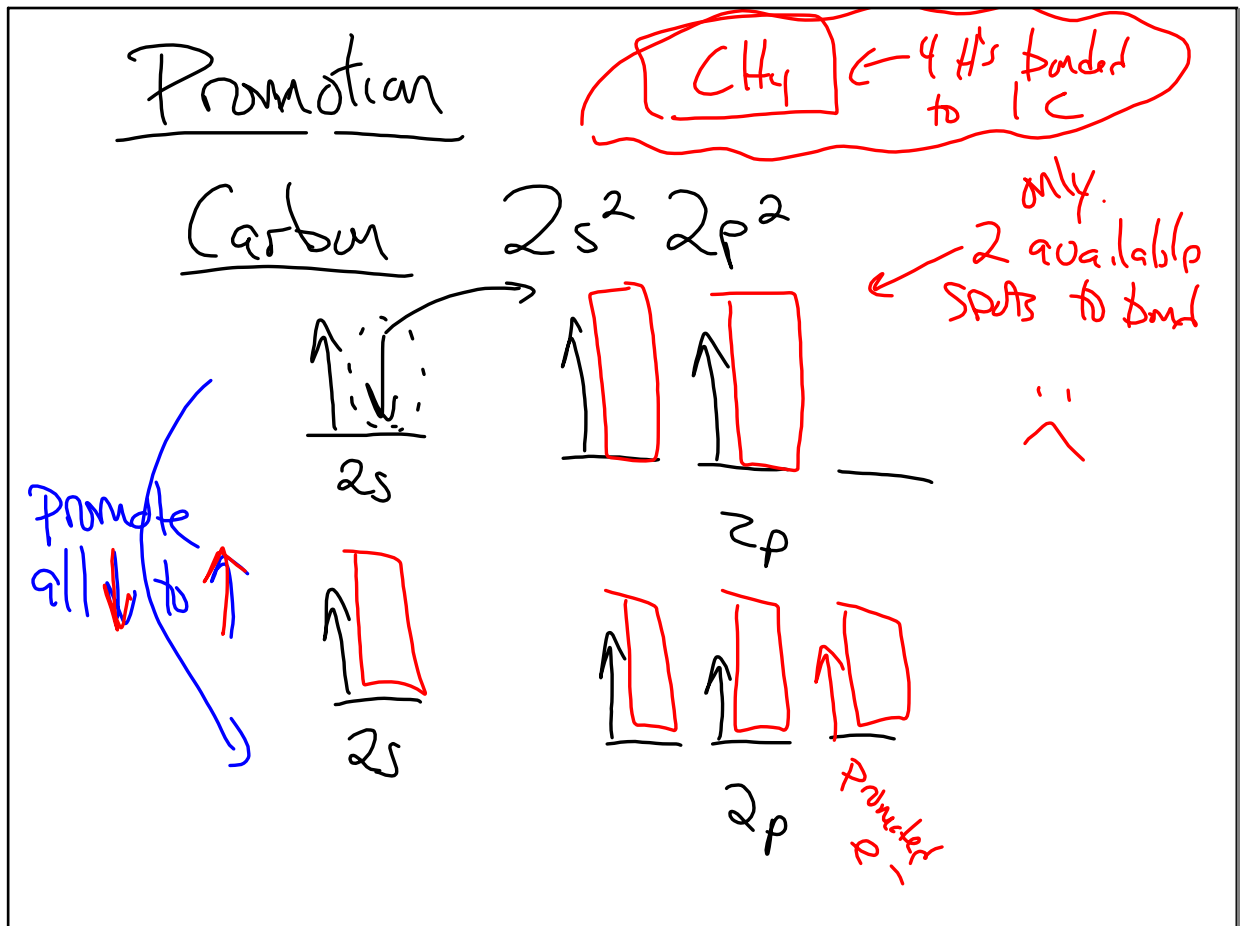
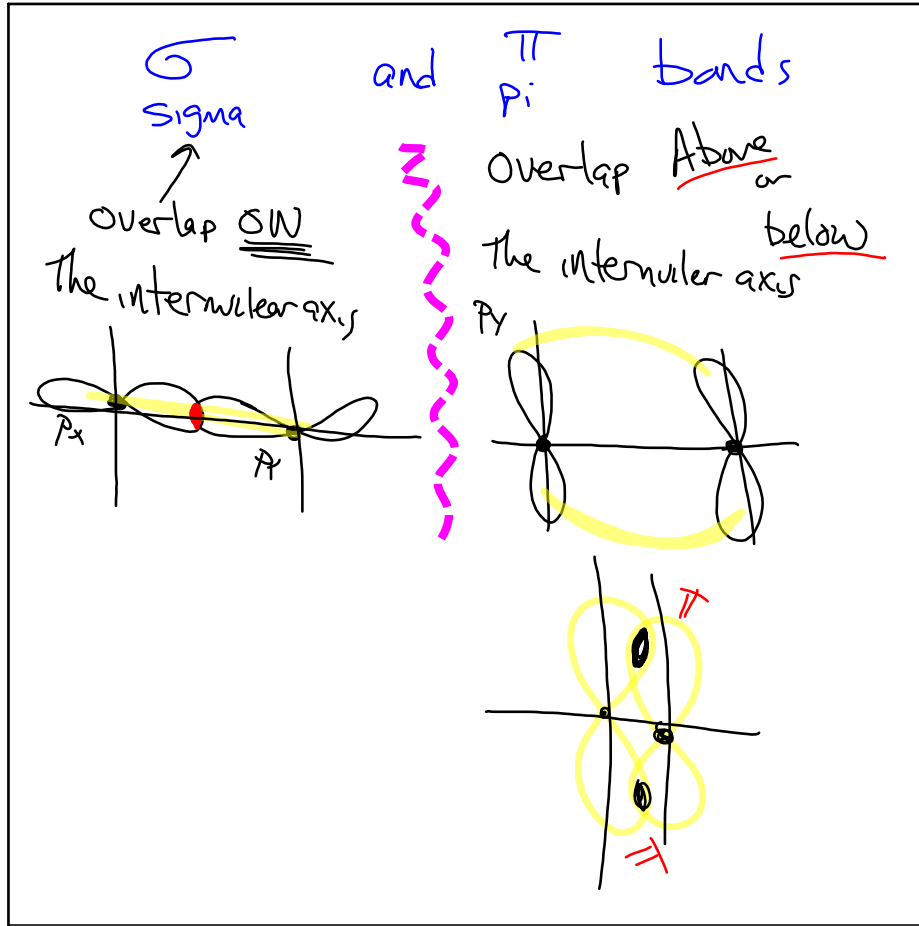
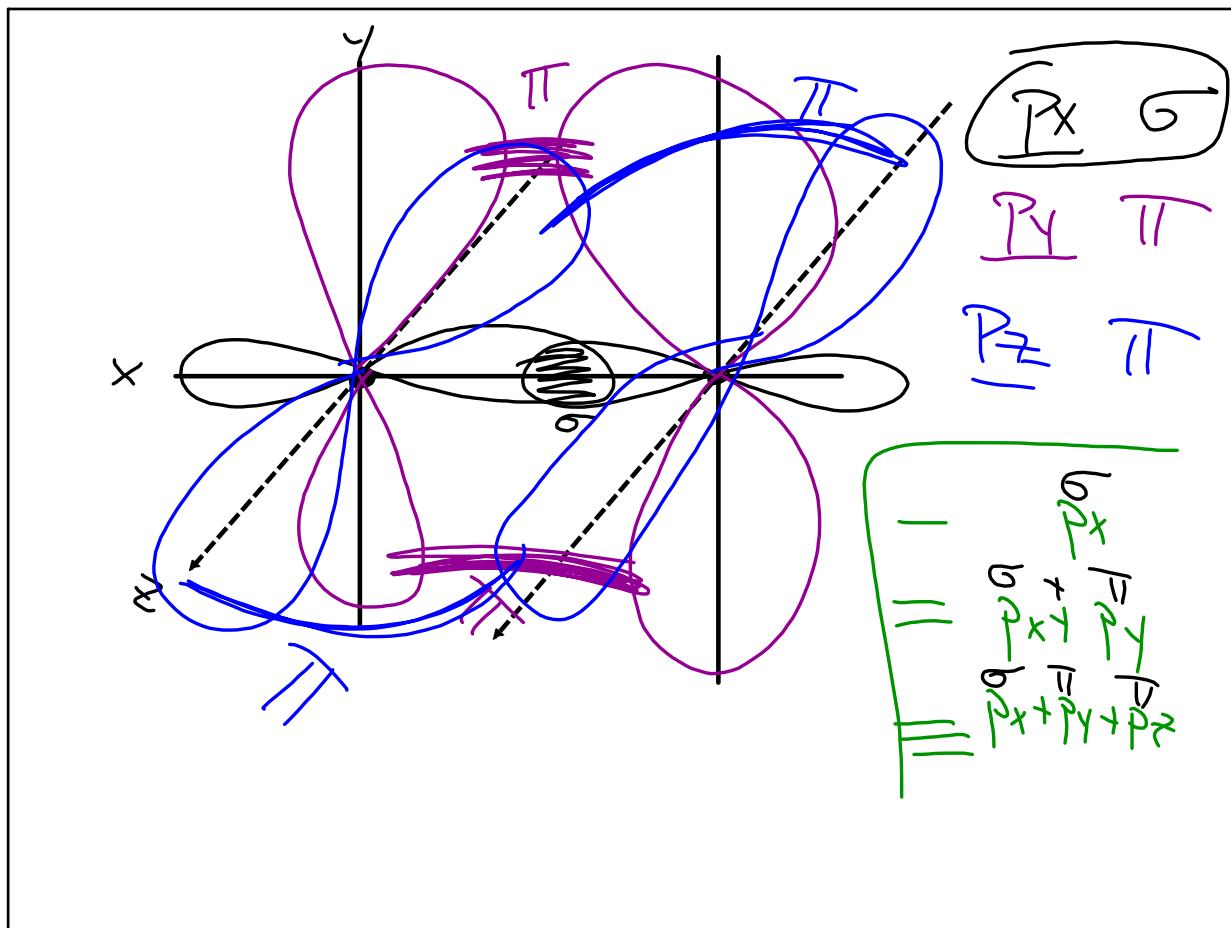


Dec 10-8:20 AM

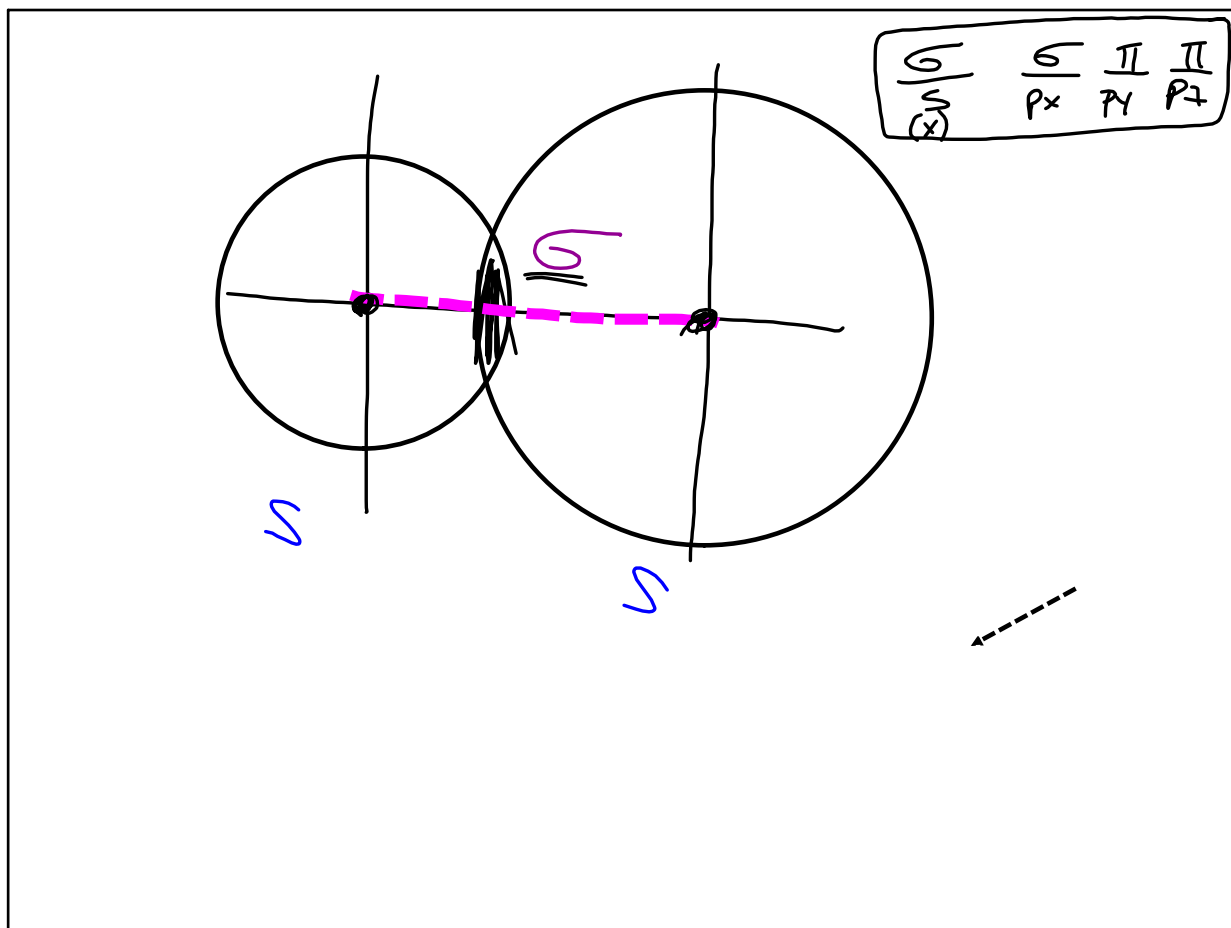


Dec 10-8:26 AM





Dec 10-8:51 AM



Dec 10-8:52 AM

Bonds

Single bond  $\text{---}$   $p_x$   $\sigma$

double bond  $\text{=}$   $1\sigma_{p_x} + 1\pi_{p_y}$

triple bond  $\text{=}$   $1\sigma_{p_x} + 2\pi_{p_y+p_z}$

Dec 10-8:55 AM

Molecular Orbitals (Atomic orbitals)

combine atoms

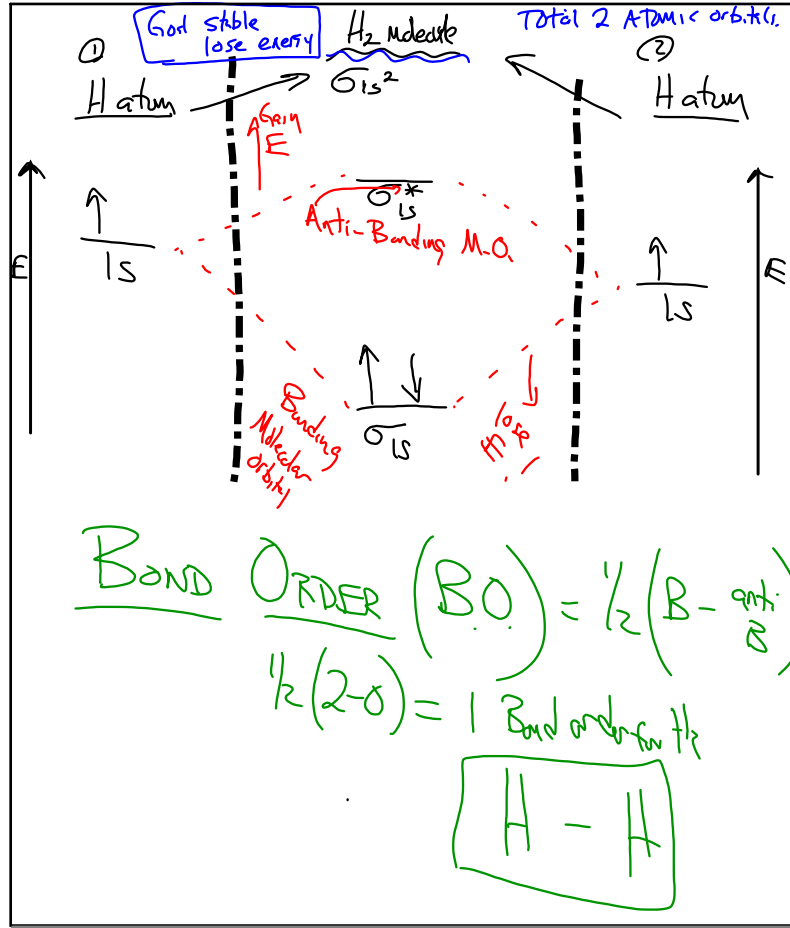
1s  
2s 2p  
3s 3p 3d

$1s^2 2s^2 2p^6$

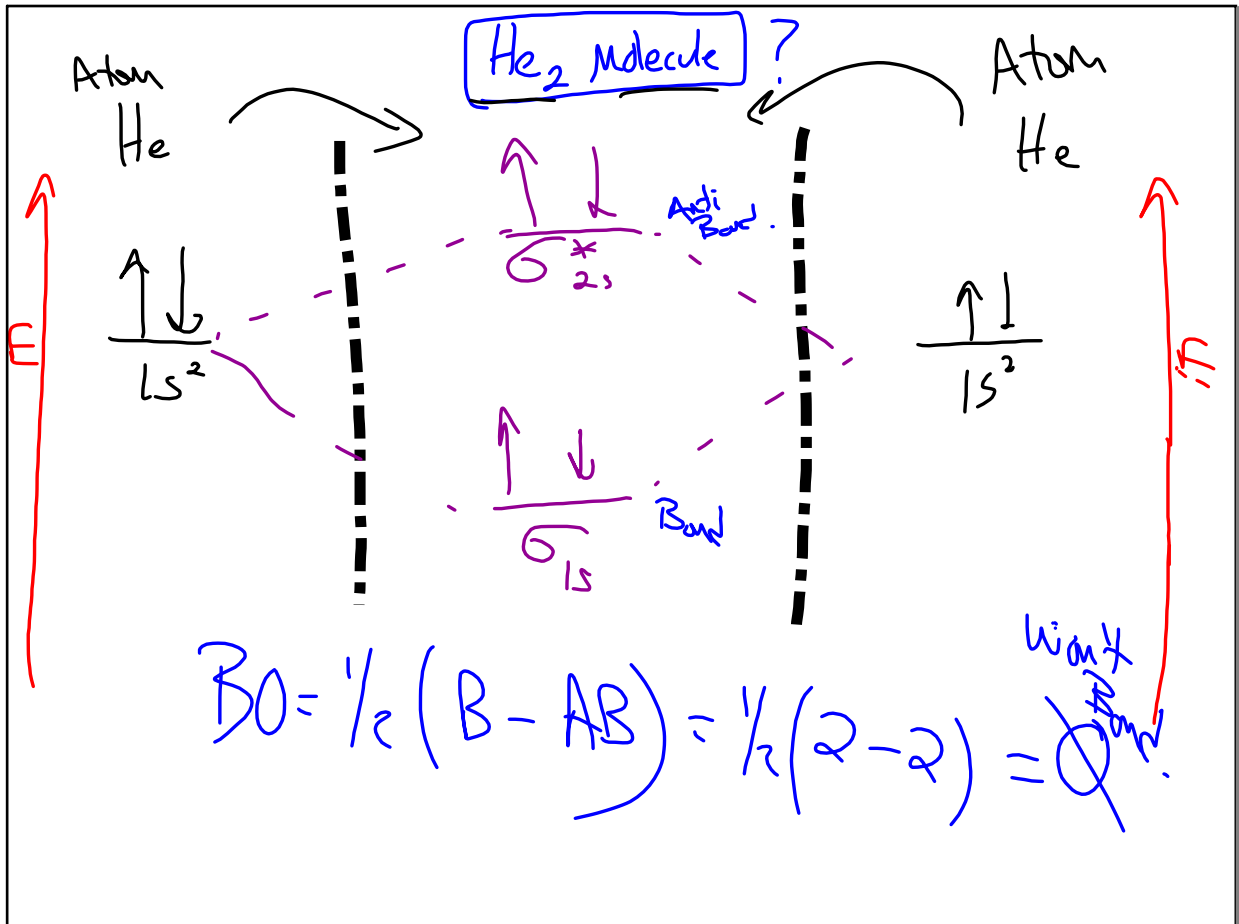
Molecular electron configuration  
 $\sigma + \pi$

Goal in bonding  $\rightarrow$  to become stable  
lose energy  $\Delta H$

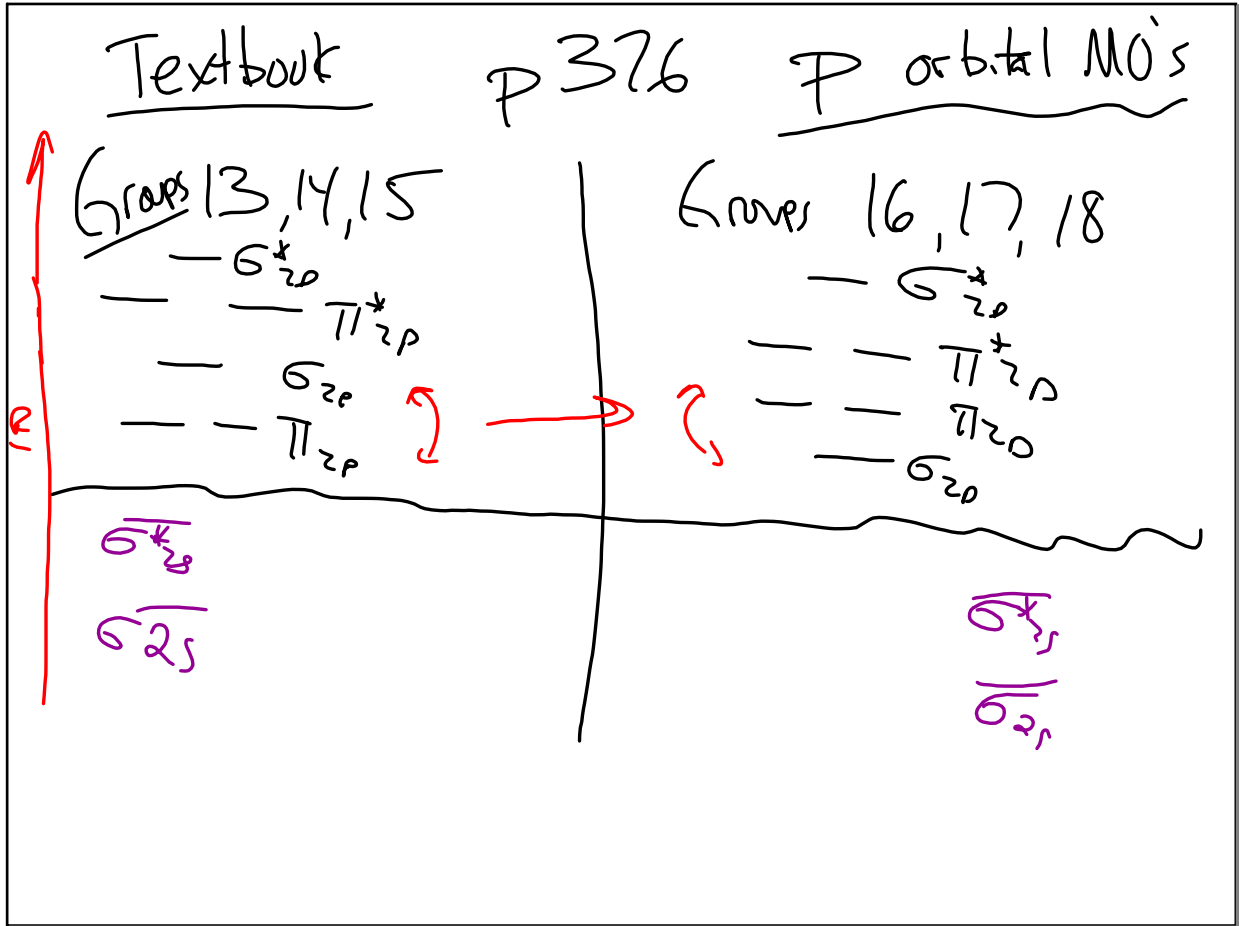
Dec 10-8:58 AM



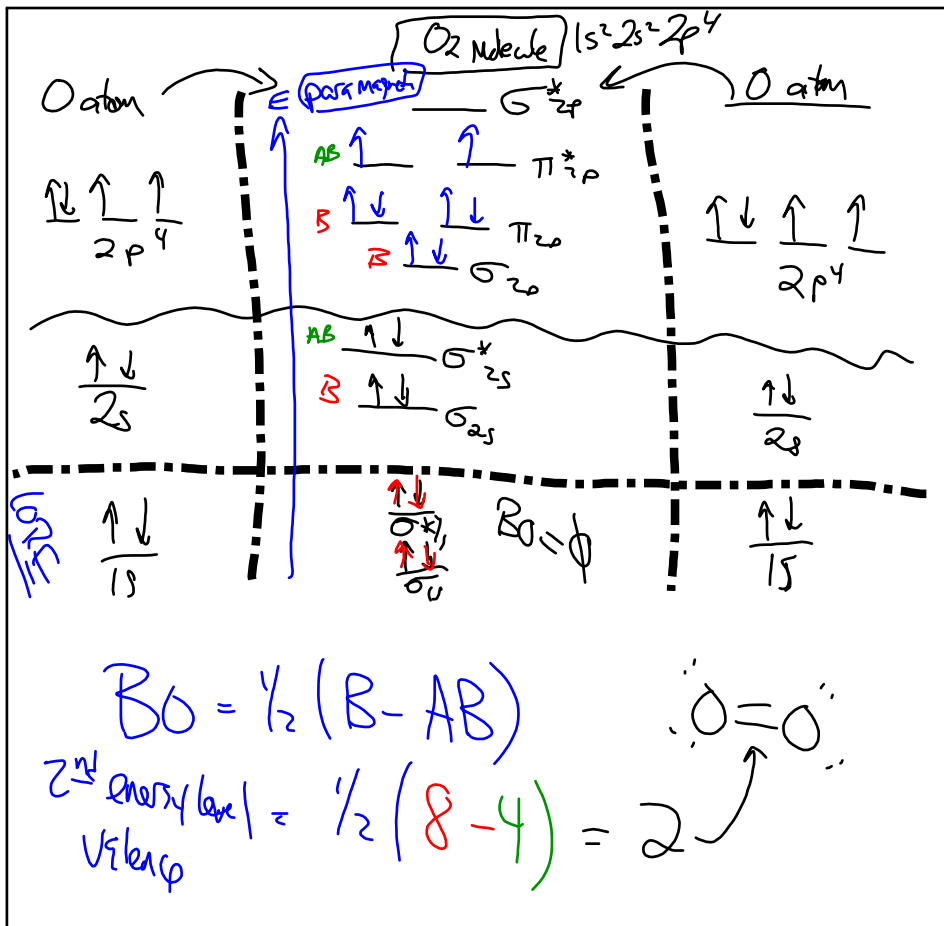
Dec 10-9:01 AM



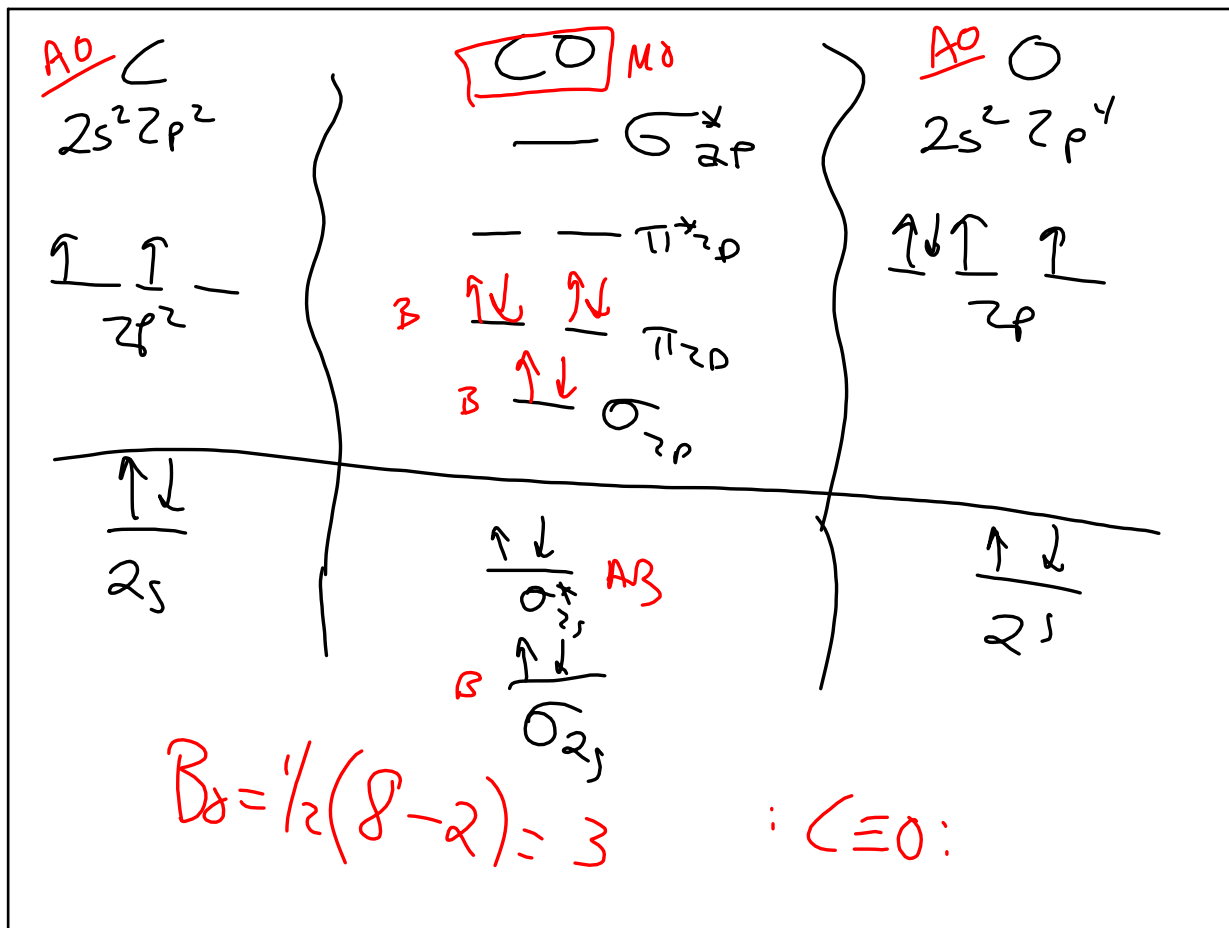
Dec 10-9:11 AM



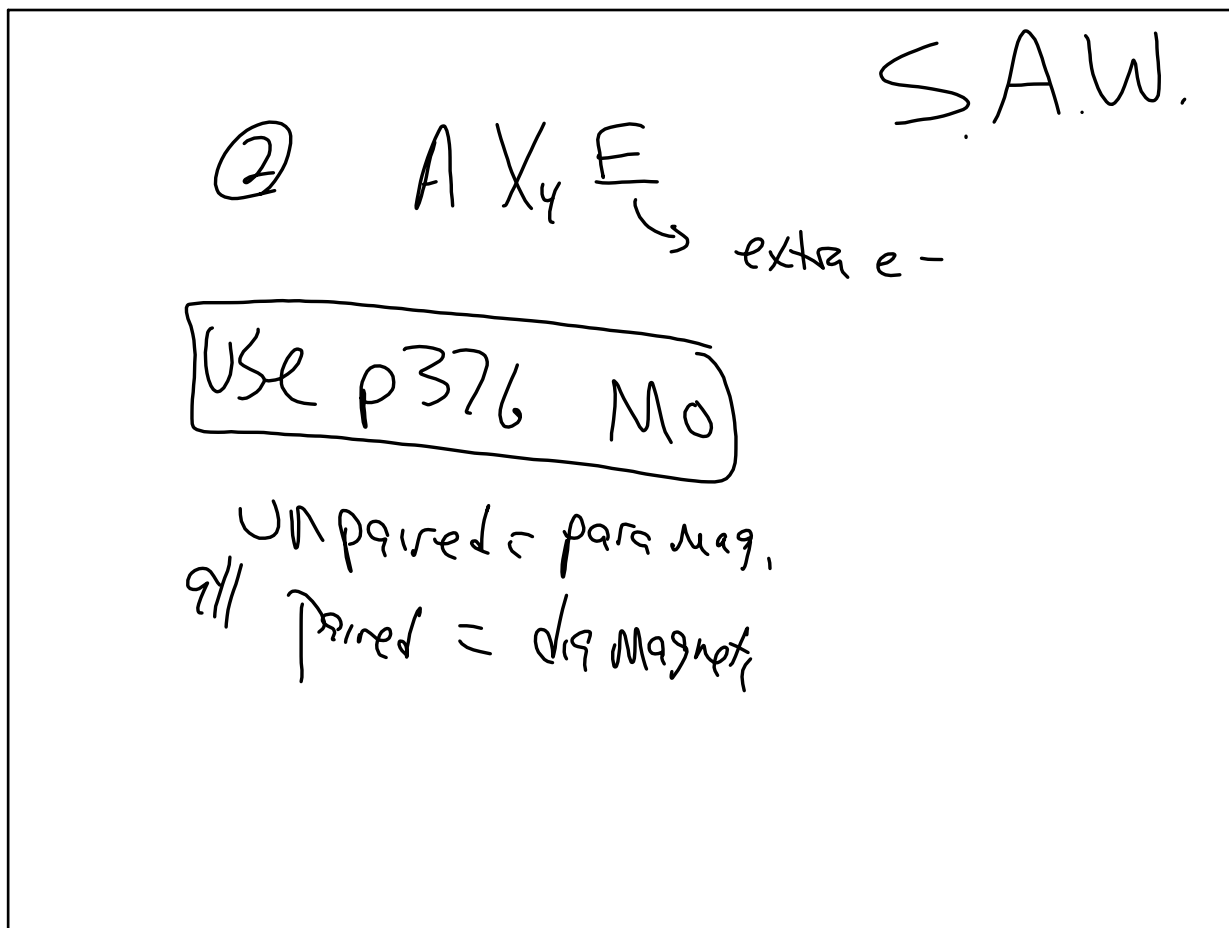
Dec 10-9:15 AM



Dec 10-9:18 AM



Dec 10-9:27 AM



Dec 10-9:30 AM