

3/27/23

test 3 review

antibonding = destructive & $E \uparrow$

bonding = constructive & $E \downarrow$

node: wave function goes to 0, switches sign

π bonds are not as strong as σ bonds

unpaired electrons is paramagnetic

$$\text{bond order} = \frac{(\text{bond } e^-) - (\text{antibond } e^-)}{2}$$

↙ pair

bond order = # of bond

ex: O_2 bond order = 2 $O=O$

if bond order = 0 it is unstable

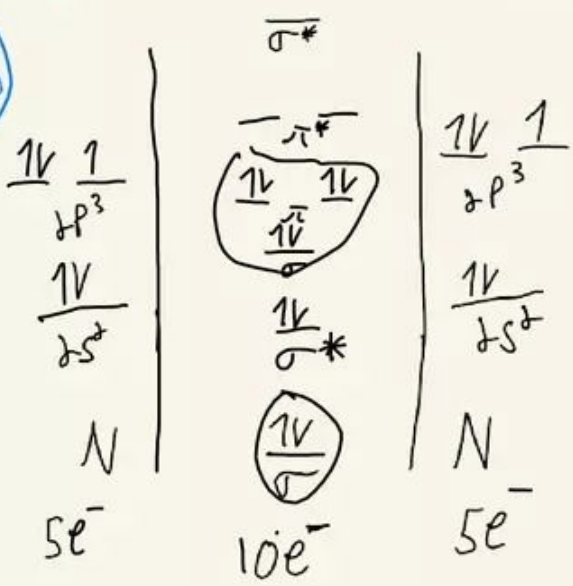
double bonds are shorter than single bonds

for B, C, N (B_2, C_2, N_2) flip σ_{2p} & π_{2p}

3/87/23

chapter 6 practice

2b)



$$\frac{1}{8}(8-8)$$



$$\frac{1}{8}(8-3)$$

2.5

