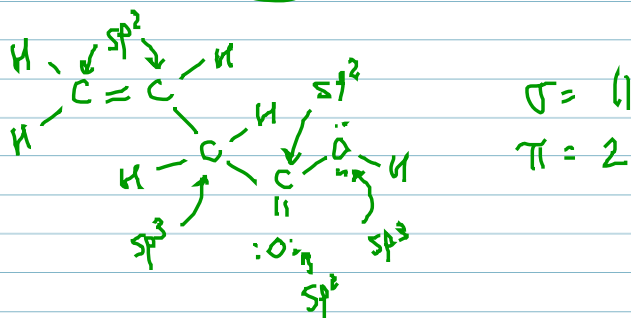
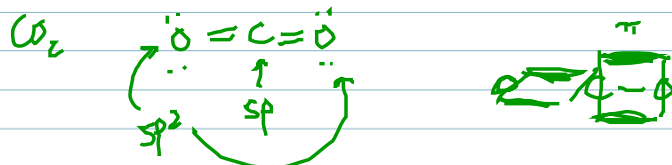
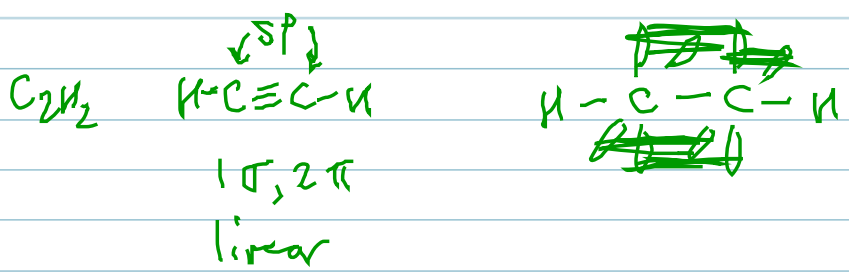
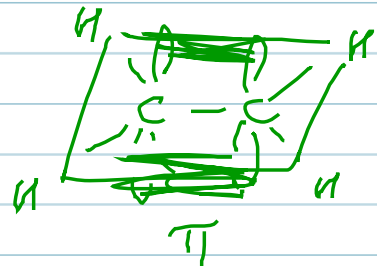
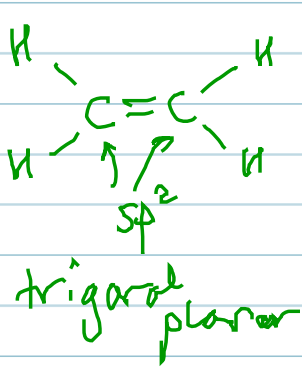
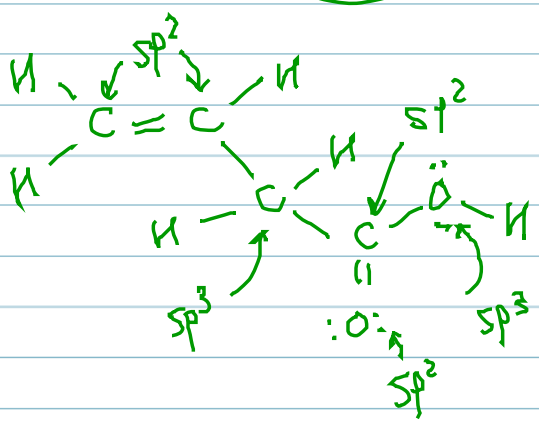
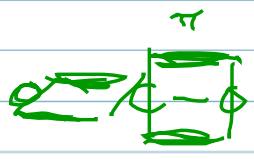
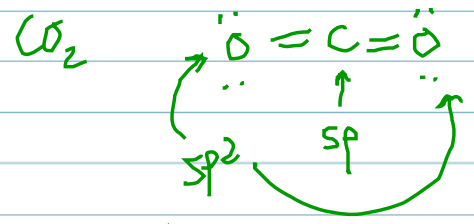


C all single bonds $\Rightarrow 4\sigma \Rightarrow sp^3 \Rightarrow$ tetrahedral
 2 single, 1 double $\Rightarrow 3\sigma, 1\pi \Rightarrow sp^2 \Rightarrow$ trigonal planar
 1 single, 1 triple $\Rightarrow 2\sigma, 2\pi \Rightarrow sp \Rightarrow$ linear
 2 double $\Rightarrow 2\sigma, 2\pi \Rightarrow sp \Rightarrow$ linear





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 2 double $\Rightarrow 2\sigma, 2\pi \Rightarrow \text{sp} \Rightarrow$ linear



$\sigma = 11$
 $\pi = 2$

