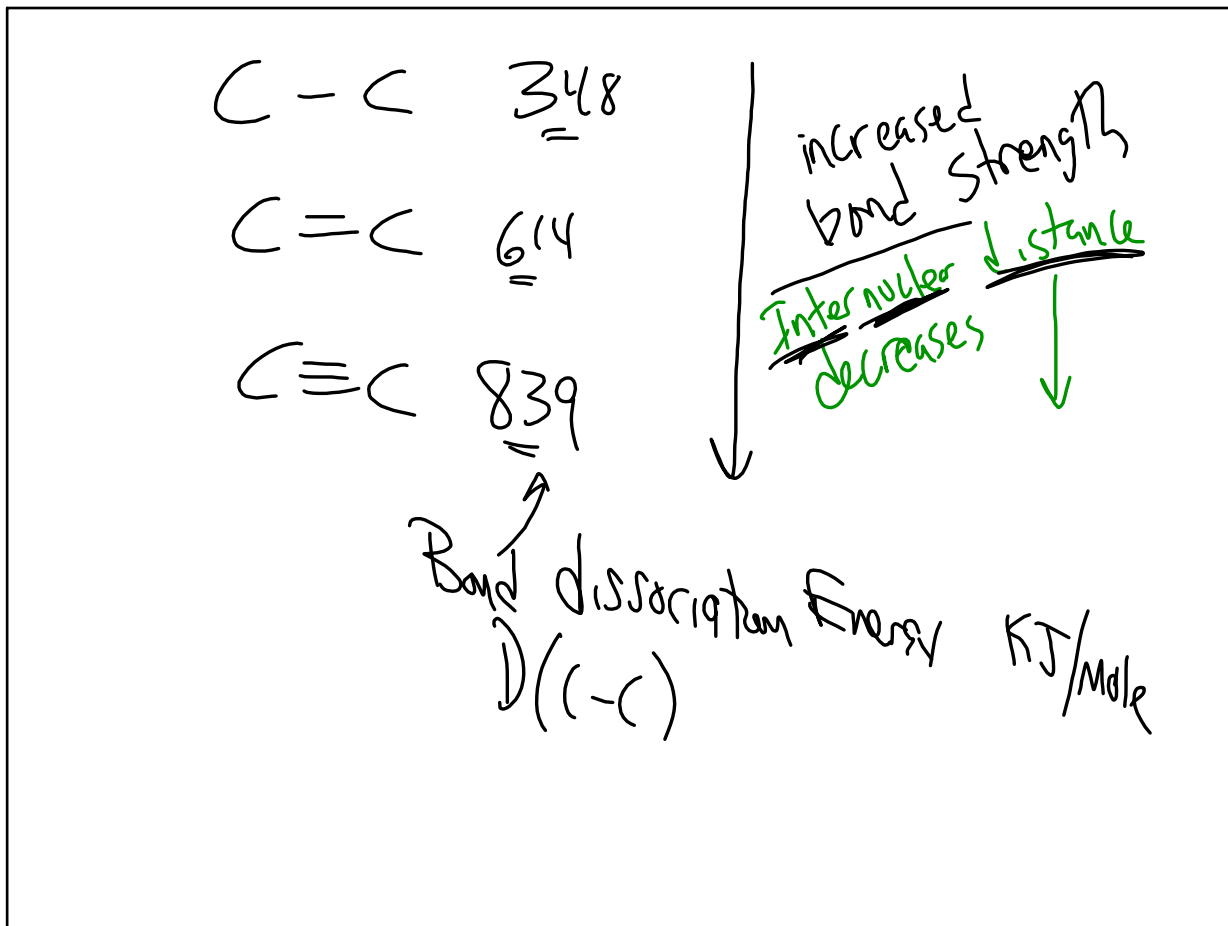


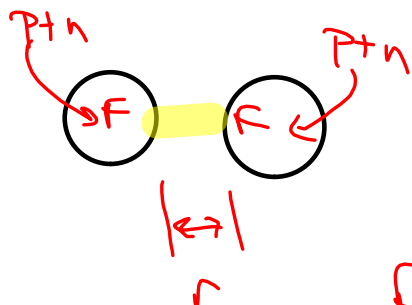
Dec 8-7:35 AM



Dec 8-8:25 AM

Atoms get closer up to a point

Inter nuclear distance



⊕ Nuclei start to repel if too close

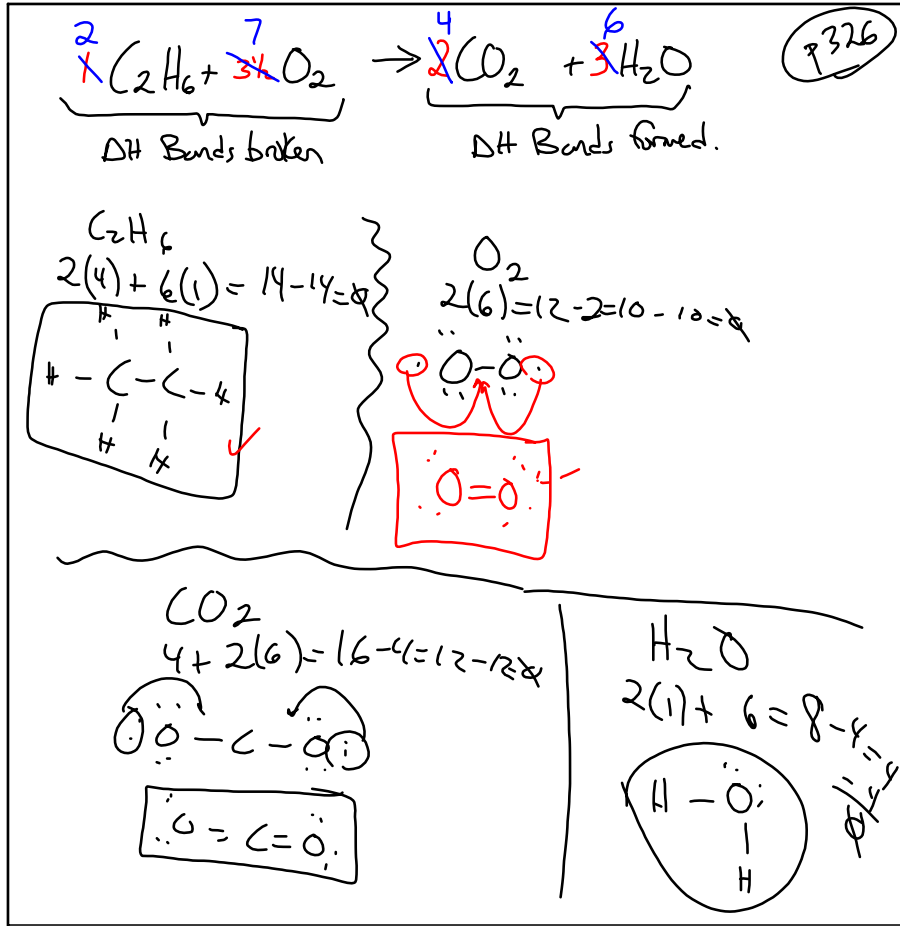


Dec 8-8:27 AM

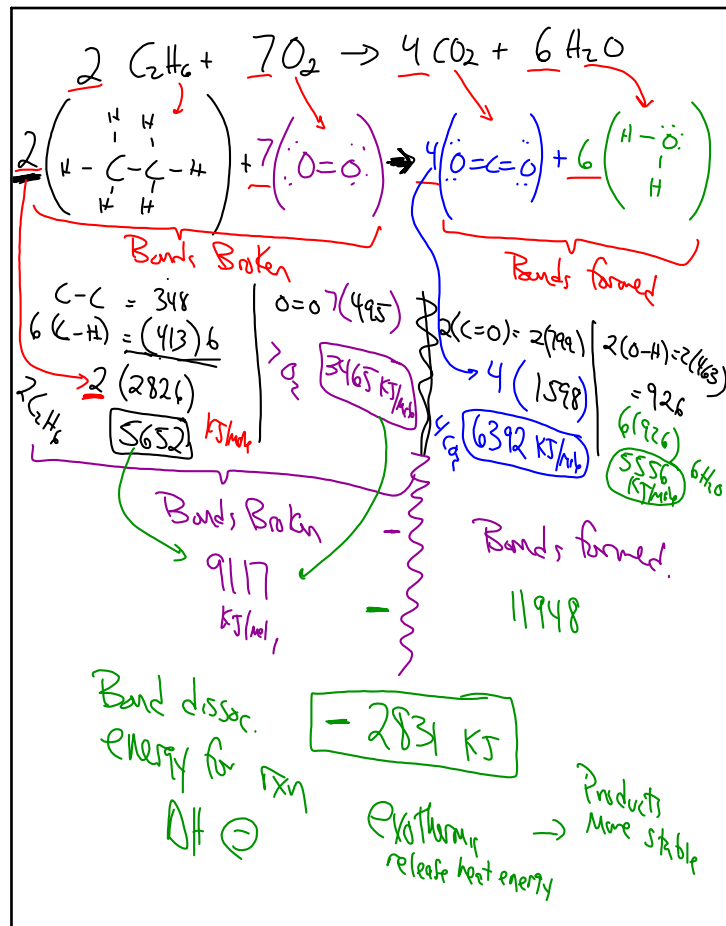
Bond dissociation Energy = $\left[\sum_{\text{Reactants}} n \sum \Delta H \text{ Bonds Broken} \right] - \left[\sum_{\text{Products}} n \sum \Delta H \text{ Bonds Formed} \right]$

Coefficient, Reactants - Products.

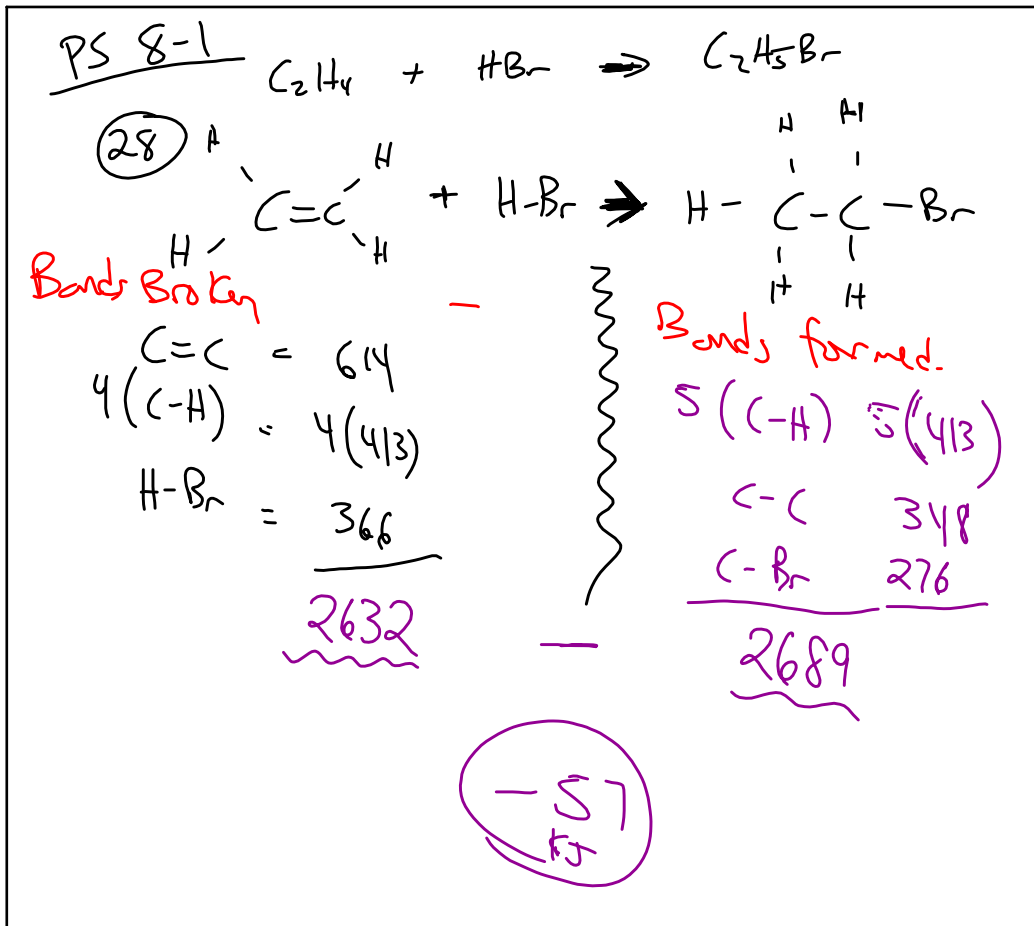
Dec 8-8:32 AM



Dec 8-8:33 AM



Dec 8-8:41 AM



Dec 8-9:04 AM

VSEPR

Valence Shell Electron Pair Reulsion

Gives the molecule its shape.

WHY? Bonding sites }
 Non-bonding sites } → sss + p_{xy} + p_{yz}

Dec 8-9:13 AM

electrons repel each other.

greater repulsive force
 b/c "greater electron density"

Repulsive forces
 larger lone pair (not shared) > triple bond > double bond > single bond
 (small)

Dec 8-9:14 AM

AW

8/66 Bond dissociation

9/25 Bond k's use SSSS

7348-352

Dec 8-9:30 AM