low energy resonance contributors (structures) contribute more to the resonance hybrid (our understanding of the molecule) than high energy structures (contributors)

Things that cause Lewis structures to be considered

high in energy

incomplete octets.

charge separation

"wrong" charges

putting ⊕ on eneg atoms

putting ⊖ on an electropositive atom less eneg atom

1 problem is ok

2 is alright

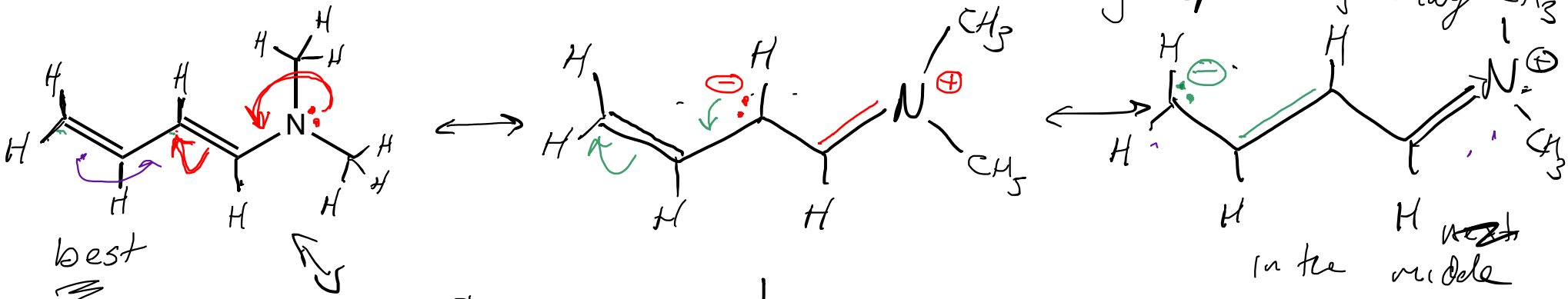
3 don't draw insignificant contributor

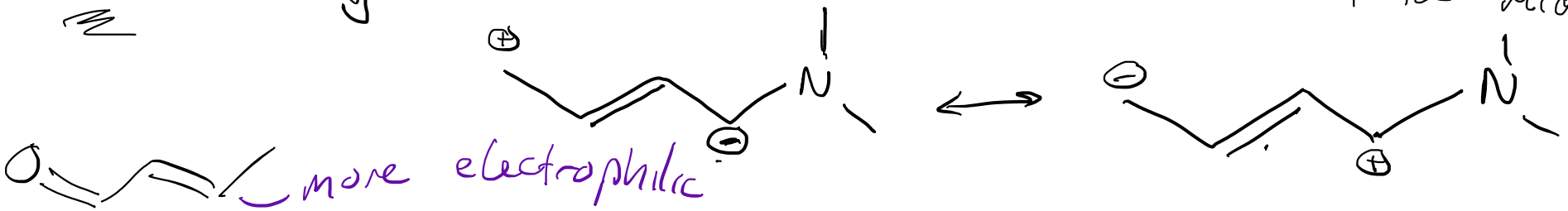
move lp e⁻'s towards π bonds, move π bonds towards empty p orbitals,

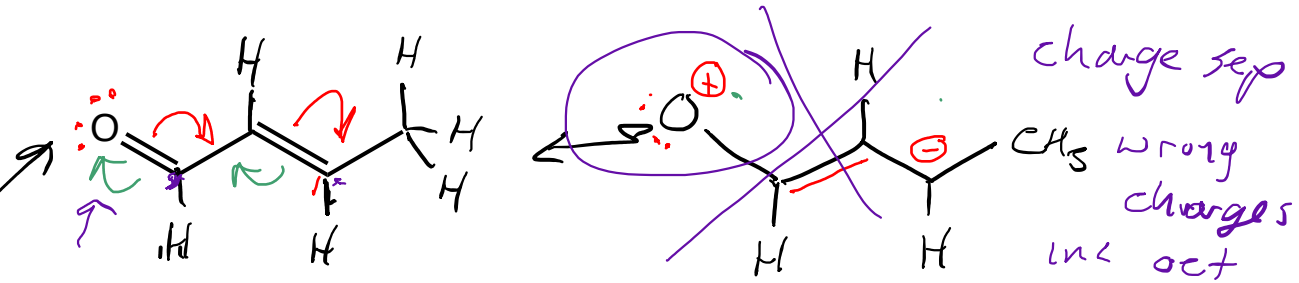
Weighted Averages: The good, the bad, and the ugly

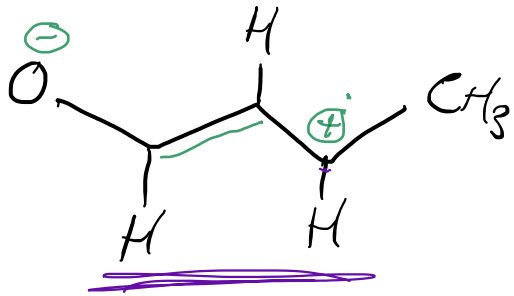
move π bonds towards π bonds

Section 8.5 & 8.6



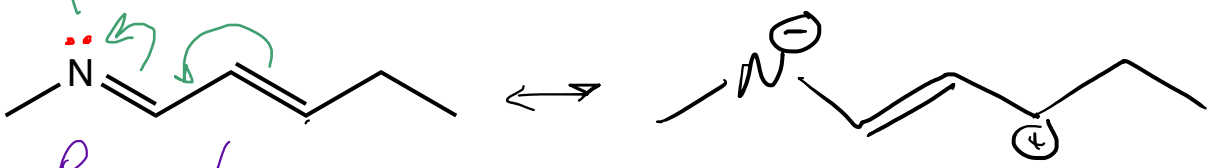






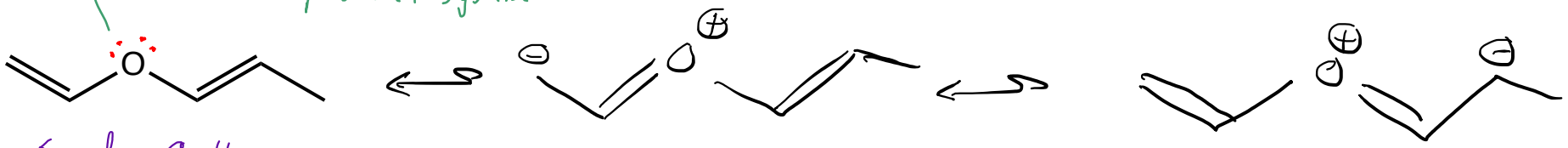
cannot use these lp e⁻'s. These are in sp^2 hybrids that are ⊥ to the π system

lone-pair e⁻'s in sp^2 hybrid ⊥ to π system ... don't age



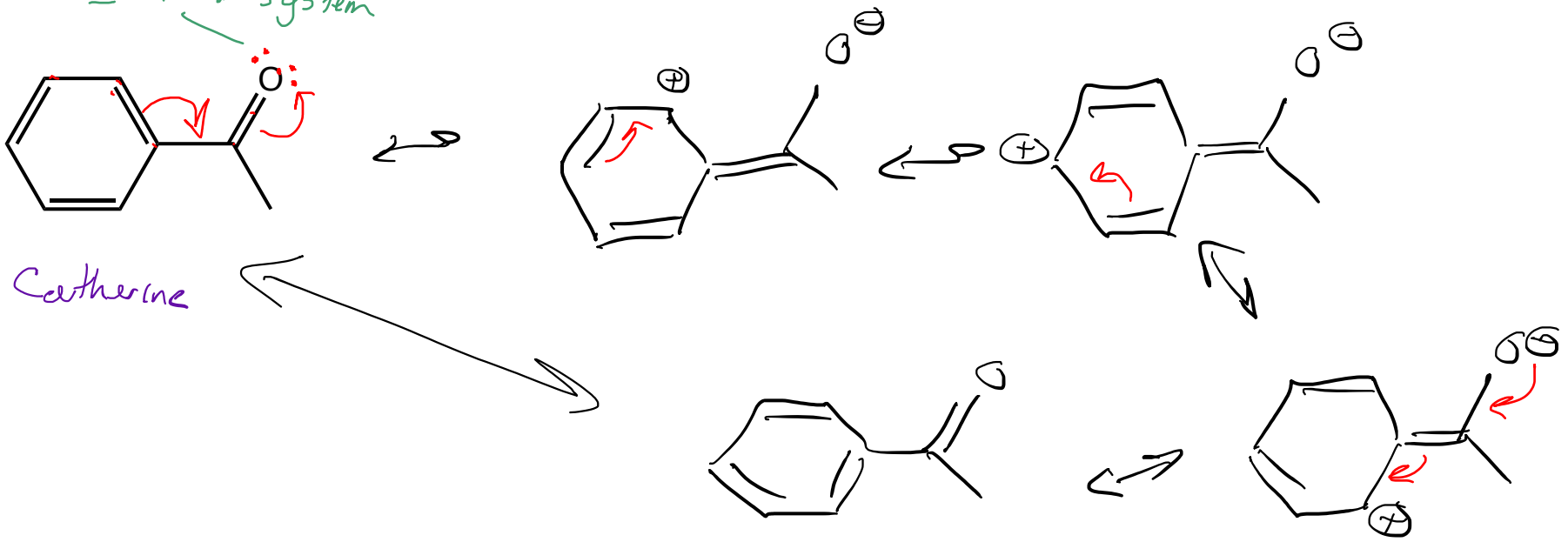
Raquel

lone-pair e⁻'s free to line up with π system



Syed + Callie

lone-pair e⁻'s in sp^2 hybrids ⊥ to π system



Catherine