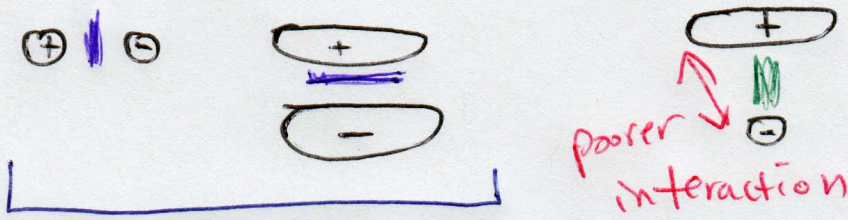


# 4/26/12 Robinson Annulation

⊕ } "hard" ions →  
 ⊖ } charge density is high; ion is compact

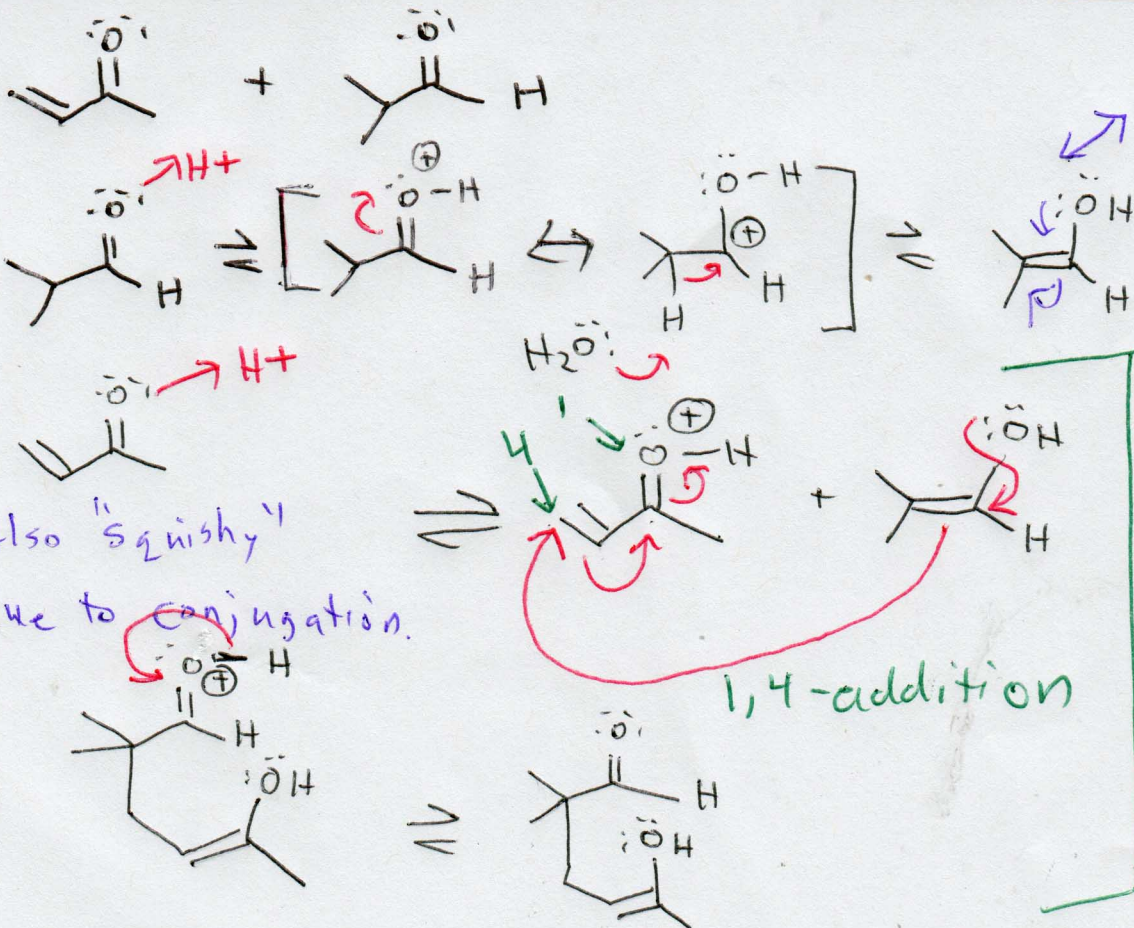
⊕ } "soft" ions →  
 ⊖ } charge density is lower; "squishy"



In this case, the overall interaction is not as favorable since the point of closest interaction does not involve as much charge (too much of the charge <sup>interaction</sup> is separated by distance).

In this case, the charges interact well because they have the maximum possible "physical" / geometrical interaction with each other.

Ions of similar charge density prefer to interact,

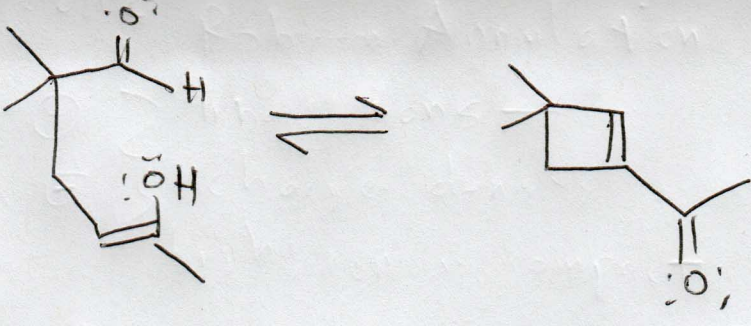


Unfavorable, but indicates compound is "squishy".

Also "squishy" due to conjugation.

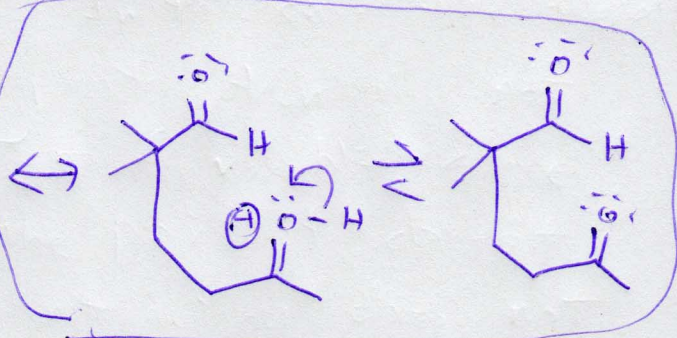
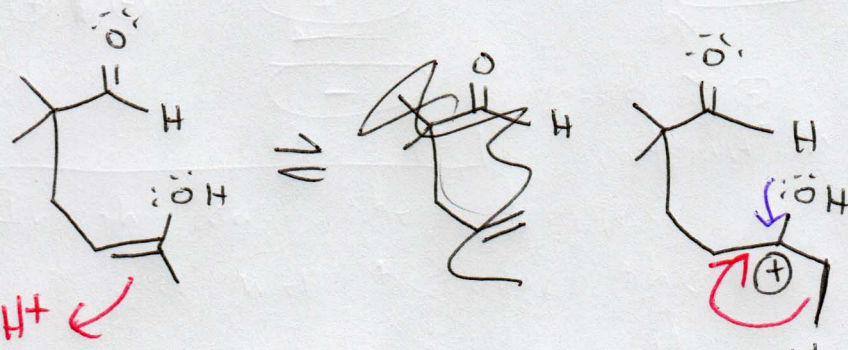
Michael Addition



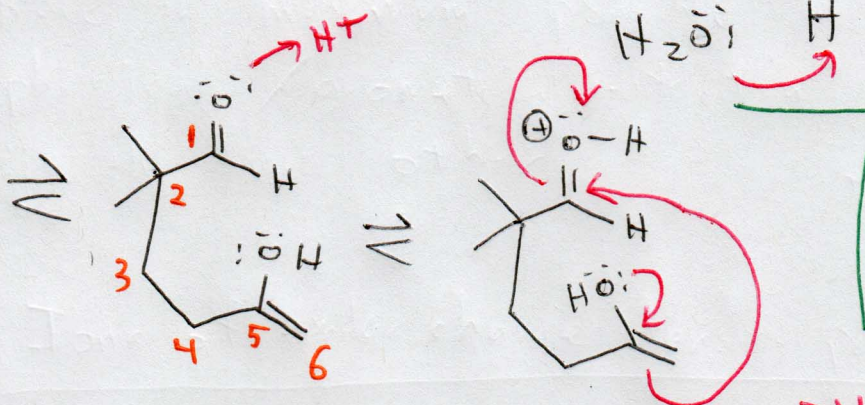


"If equilibrium can happen, it will happen."

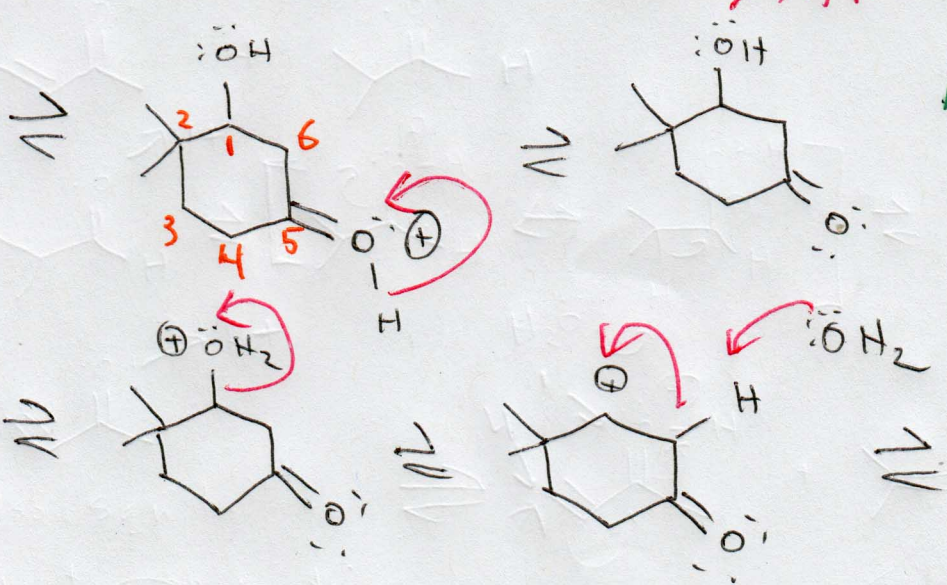
but this product is not favorable, so it will reverse,



Not necessary to be shown since rxn proceeds through common intermediate



Aldol Condensation



Michael + Aldol = Robinson Annulation