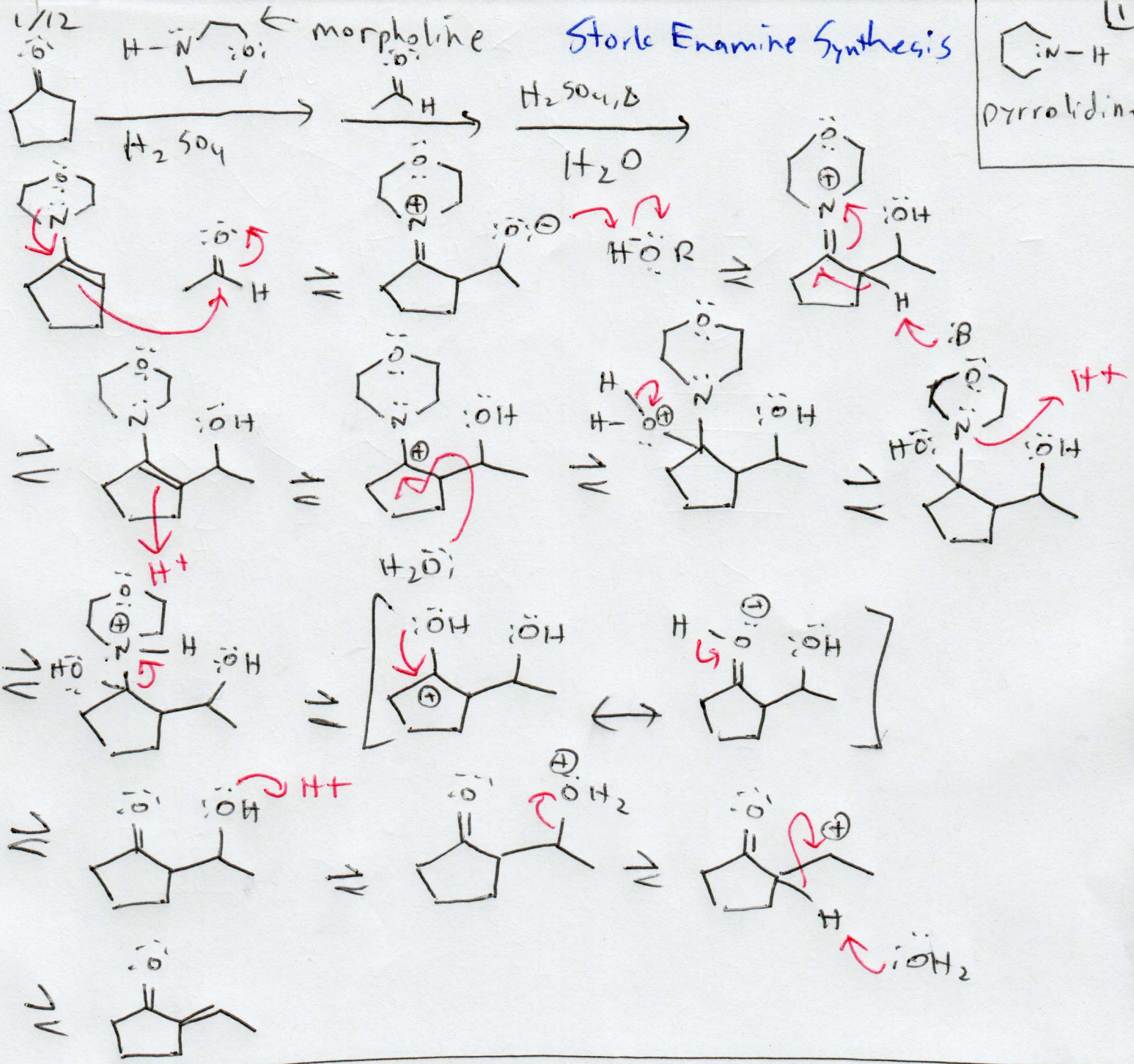
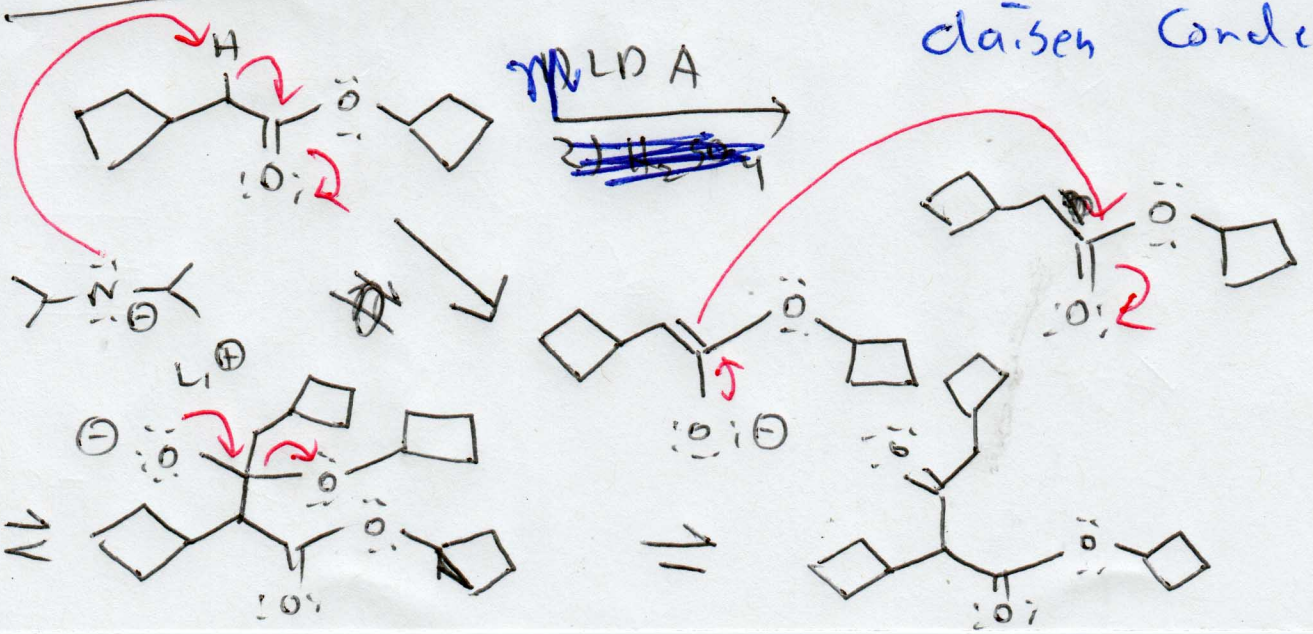
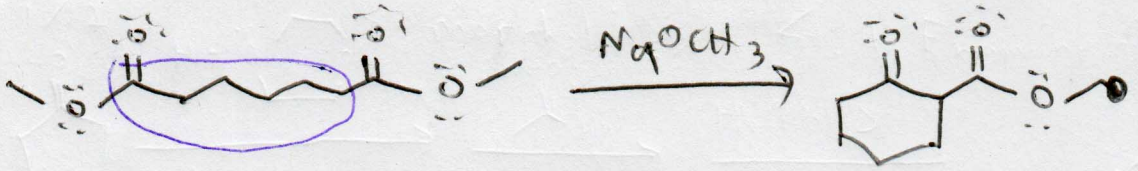
5/1/12

Stork Enamine Synthesis



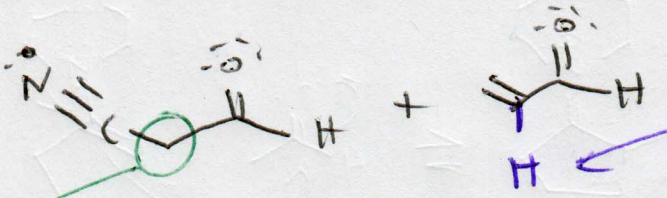
Claisen Condensation





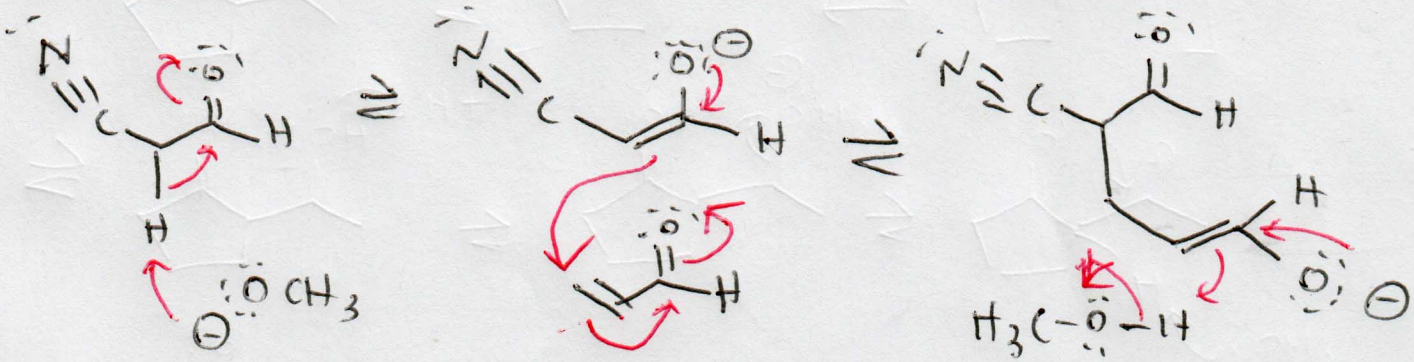
Dieckmann Condensation

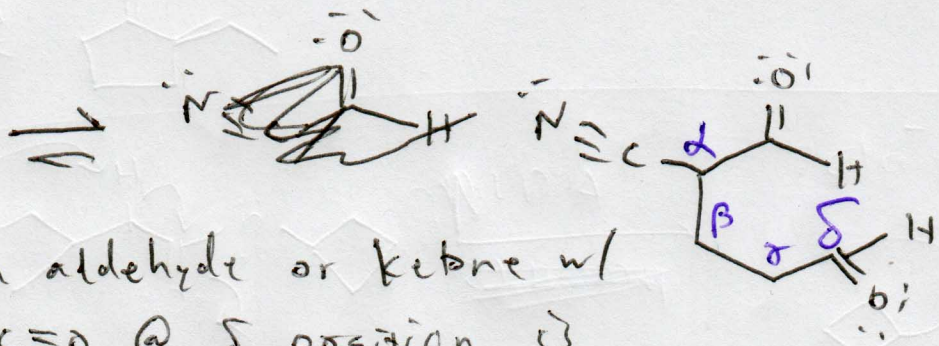
Michael addtn



Not a standard α-proton since, although it is in the correct position, if it is removed, the resulting anion cannot be delocalized, since the C=O is already conjugated w/ the C=C.

Due to resonance w/ both the C=O + C≡N, the anion formed by removing this α proton is less basic (lower base strength) and therefore more "squishy", so it can undergo conjugate addition.





An aldehyde or ketone w/ a C=O @ δ position is indicative of a Michael addition.