

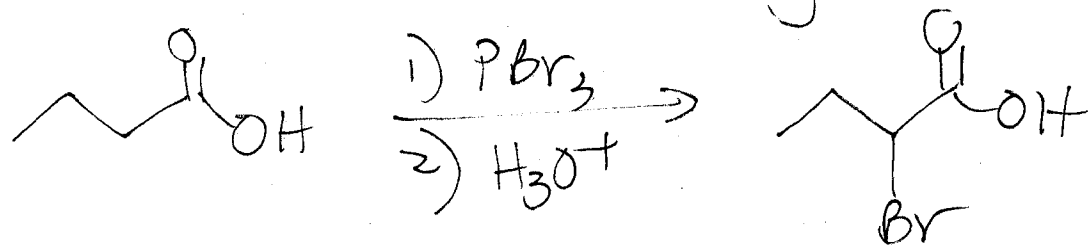
From Ch. 18

Everything I said Friday April 9th

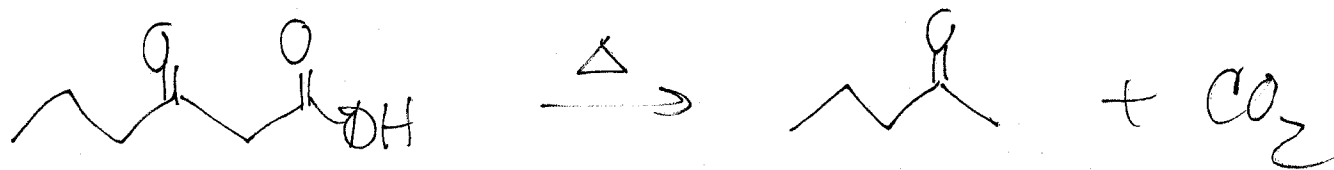
sorry, I meant Friday, April 4th!

And:

1. Hell-volhard - zelinsky (no mechanism)



2. Decarboxylation of β -keto acids



make

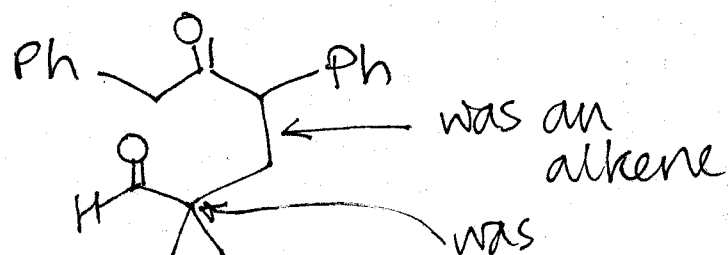
was the enolate

was
a $C=O$

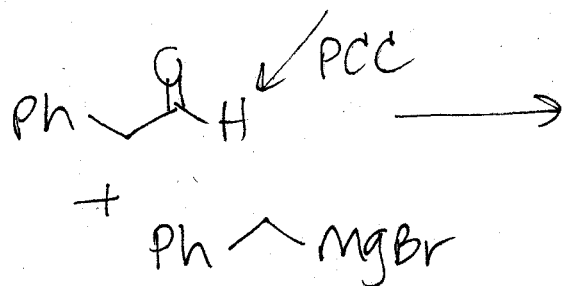
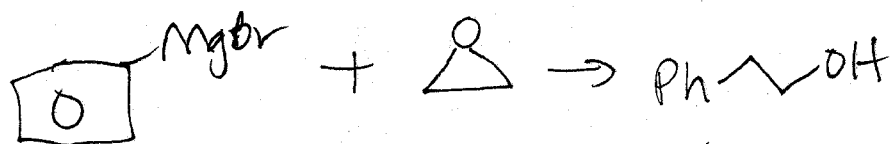
From the usual -


- 3 carbons (or less)
alcohols / RX / epoxides
- benzene

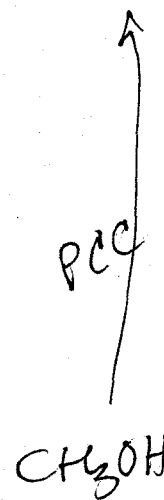
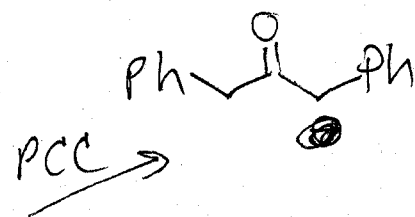
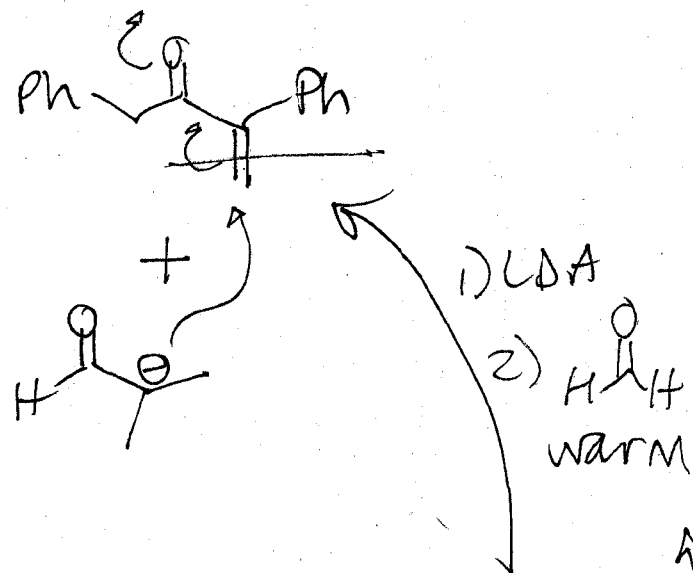
alcohol $\xrightarrow[\Delta]{\text{NaOH}}$



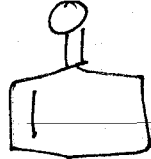
make this by
a michael
addition



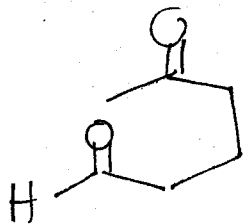
lots of ways 



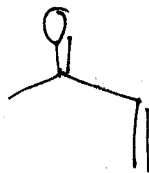
The basic structure is



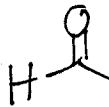
aldol \rightarrow



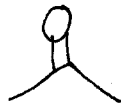
← michael



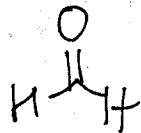
+



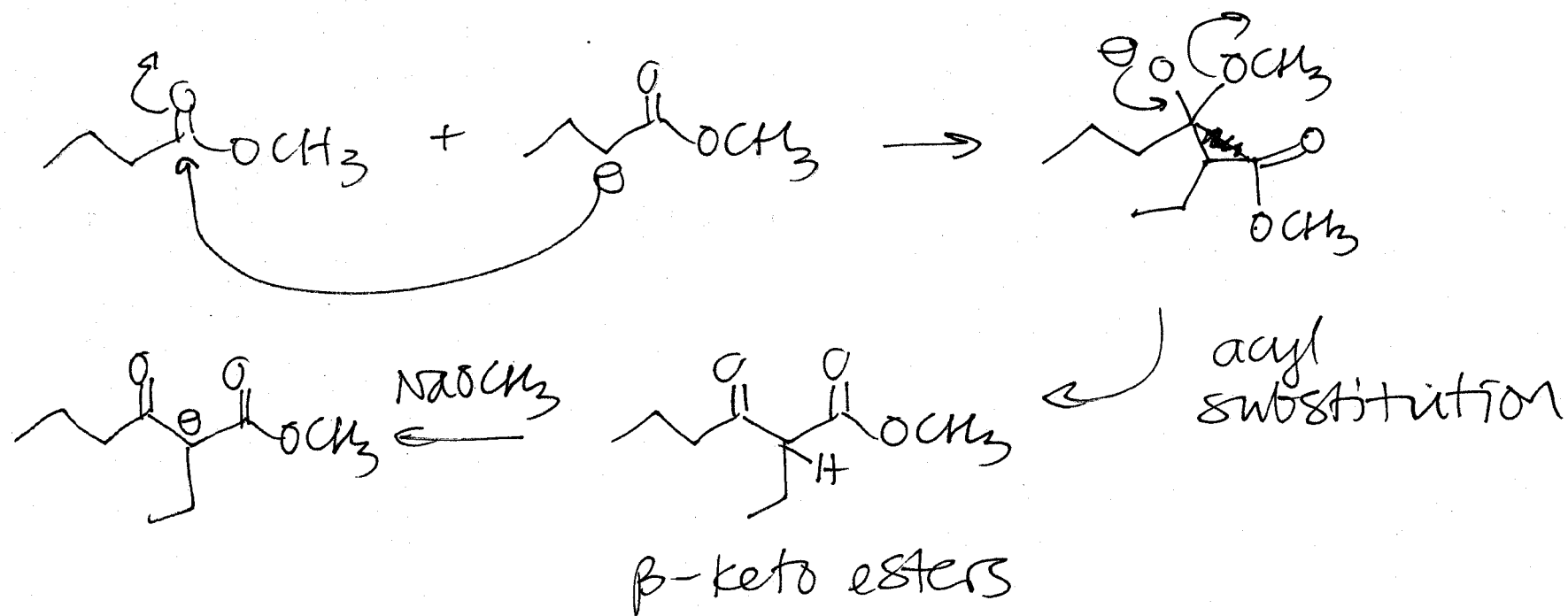
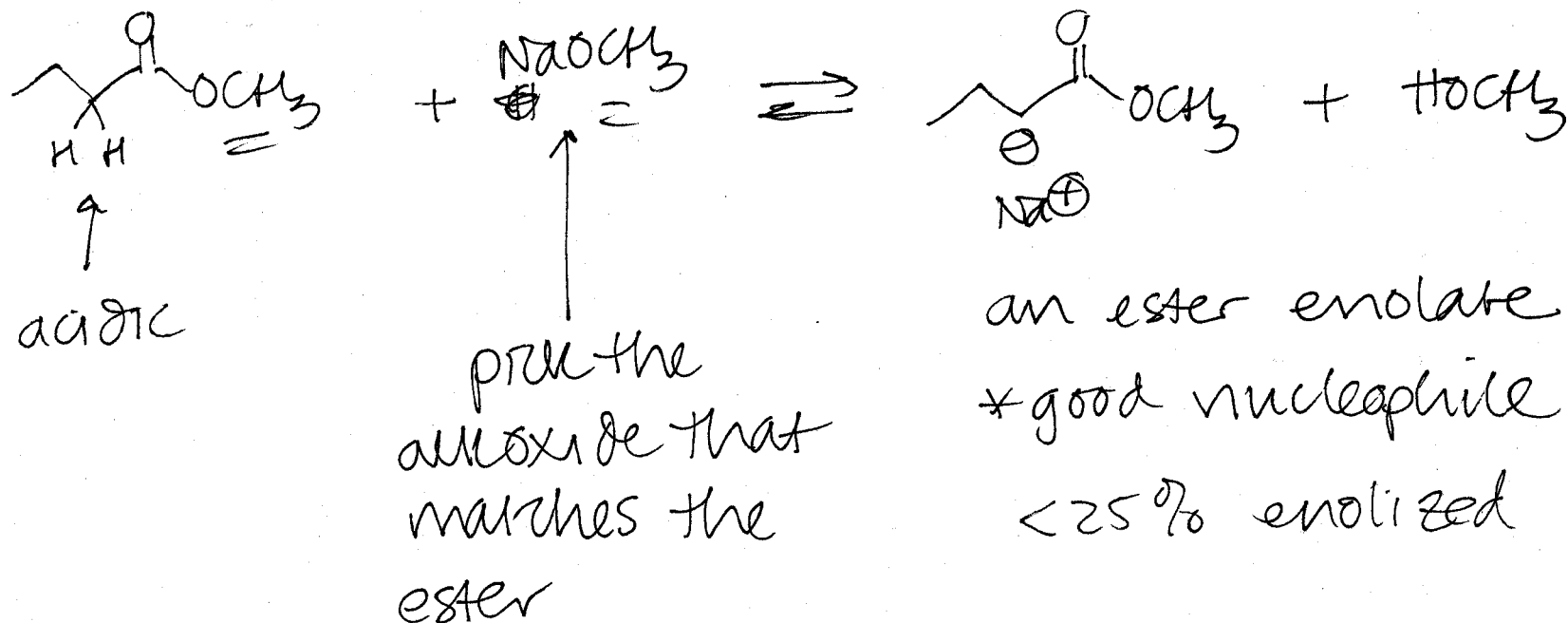
↑ aldol



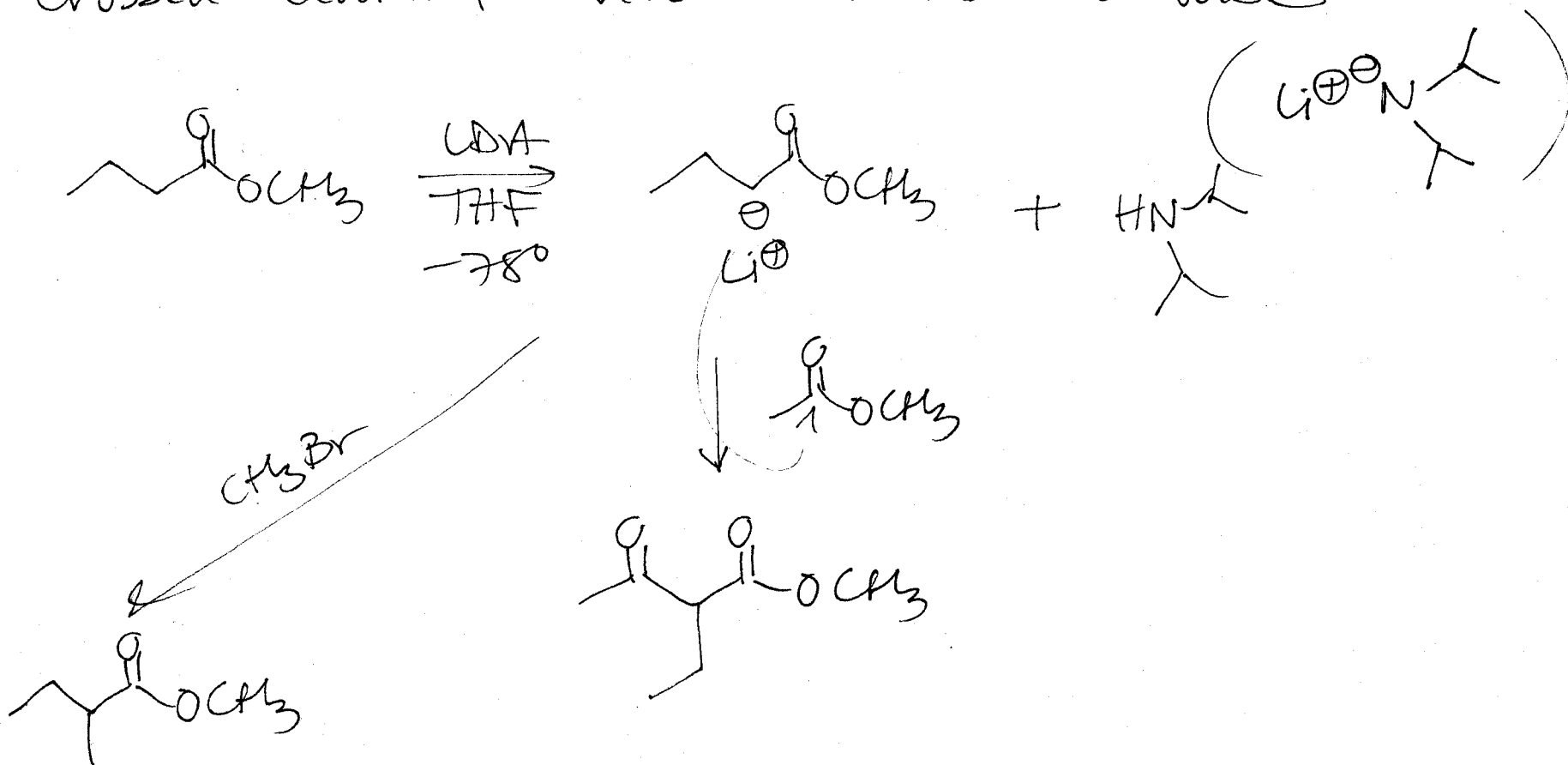
+



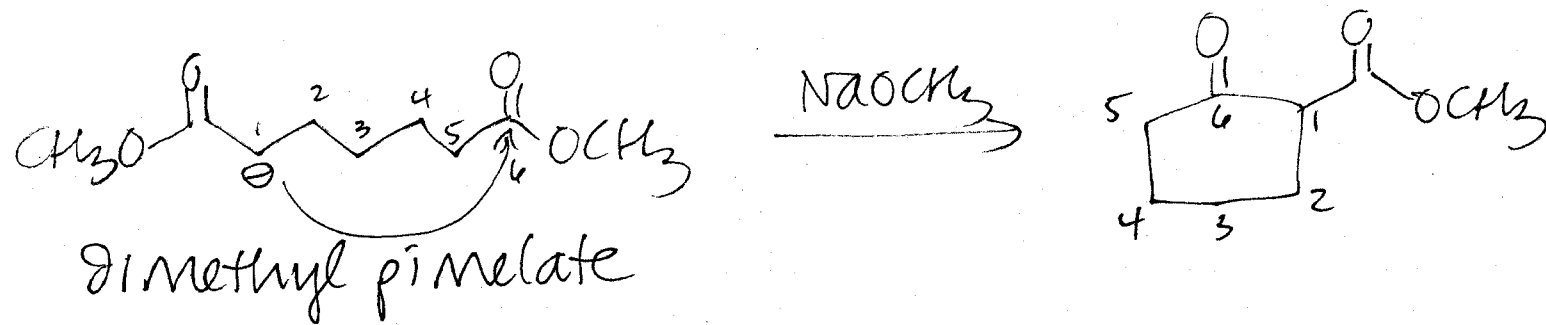
Claisen condensation



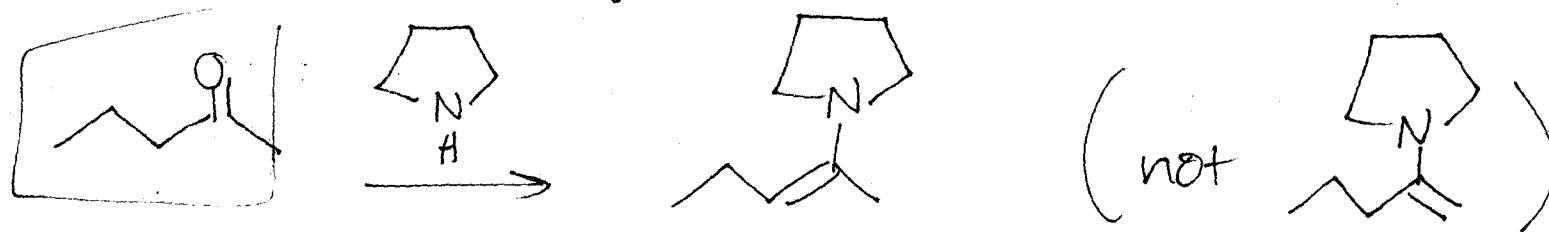
Crossed Claisen - use LDA as the base



Intramolecular Claisen - it's a Dieckmann.

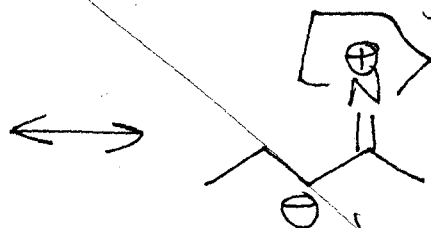
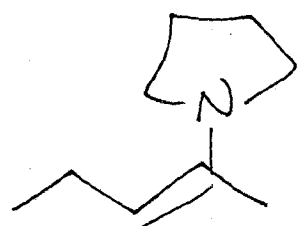


Stork enamine synthesis

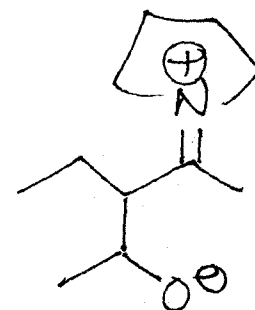
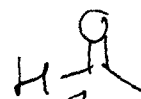


enamine
(more stable alkene)

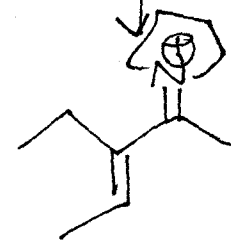
* thermodynamic



thermodynamic enolate



dehydrate



\downarrow H3O+

