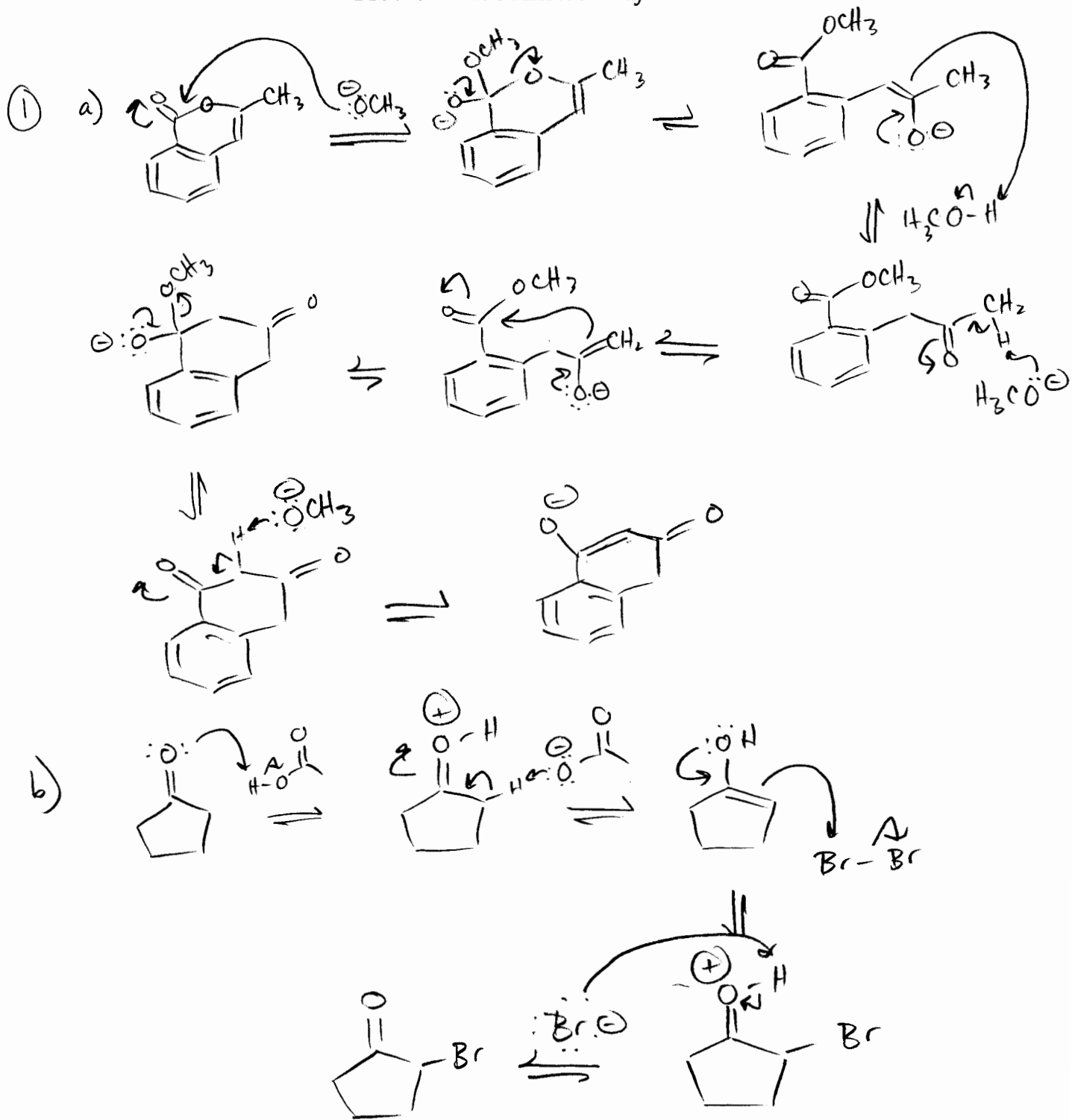
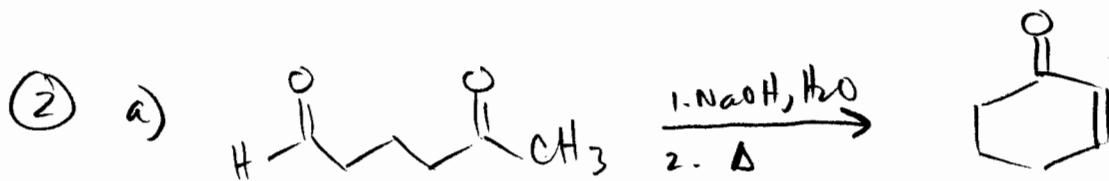


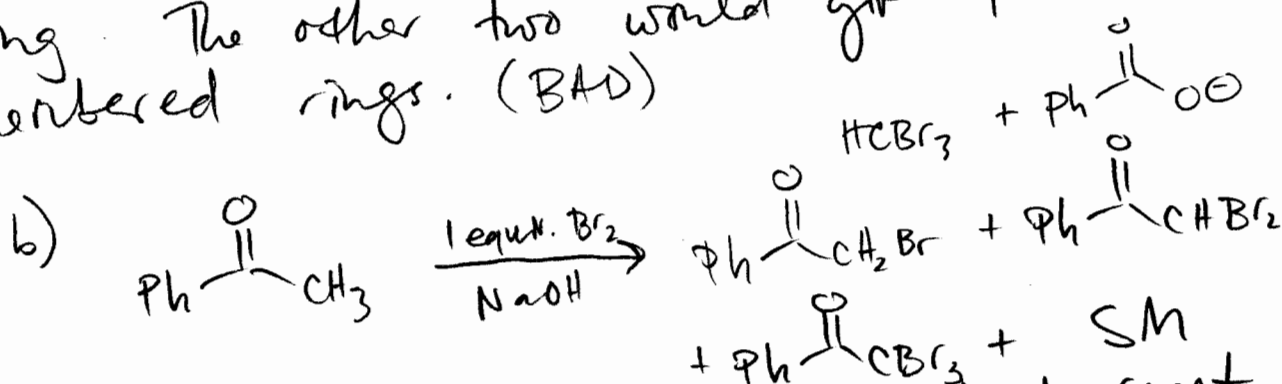
Problem Set 6 Answer Key



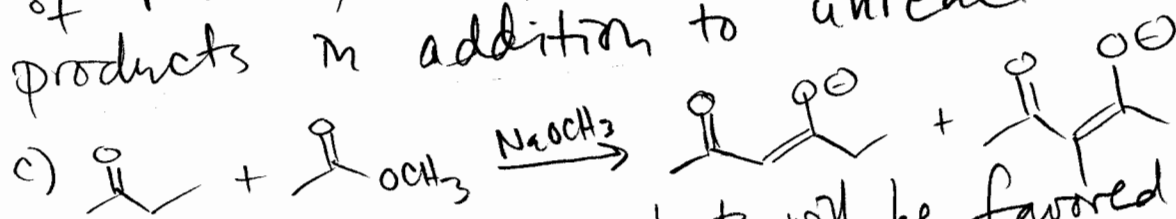
Problem Set 6 Answer Key



Selective: Only one of the three possible enolates will react to give a six-membered ring. The other two would give four-membered rings. (BAD)

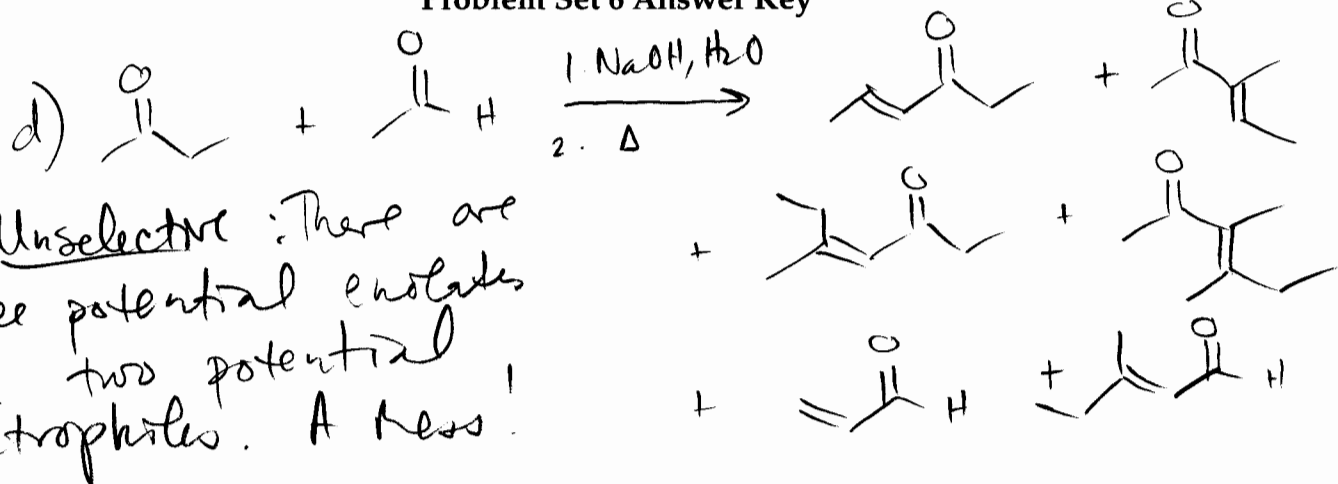


Unselective: The brominated products react faster than the SM \rightarrow get mixtures of mono-, di-, and tri-brominated products in addition to unreacted SM.

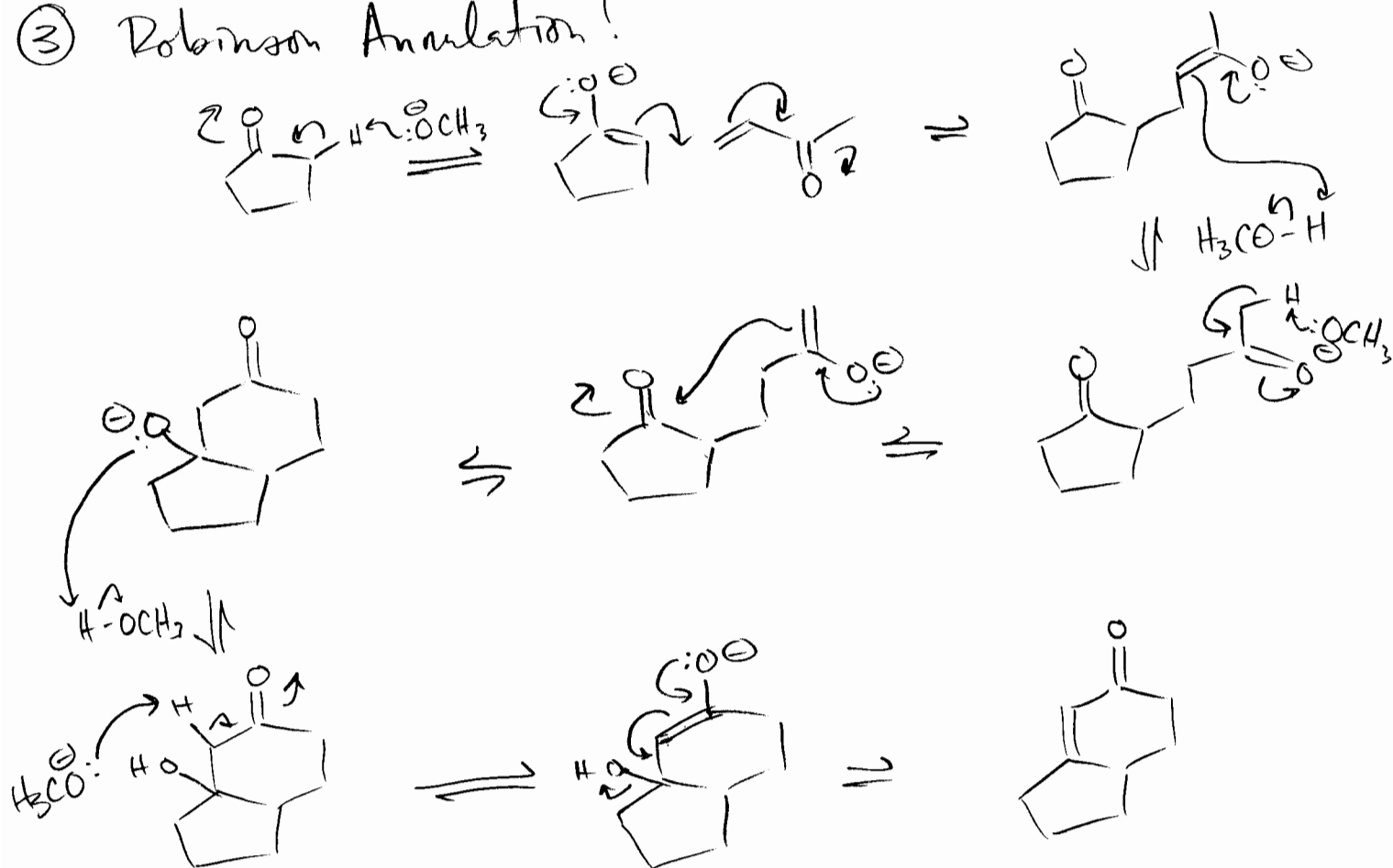


Unselective: Claisen products will be favored because of formation of the enolate of the β -dicarbonyl, but ketone is unsymmetrical. Both α -carbons have at least 2 enolizable protons.

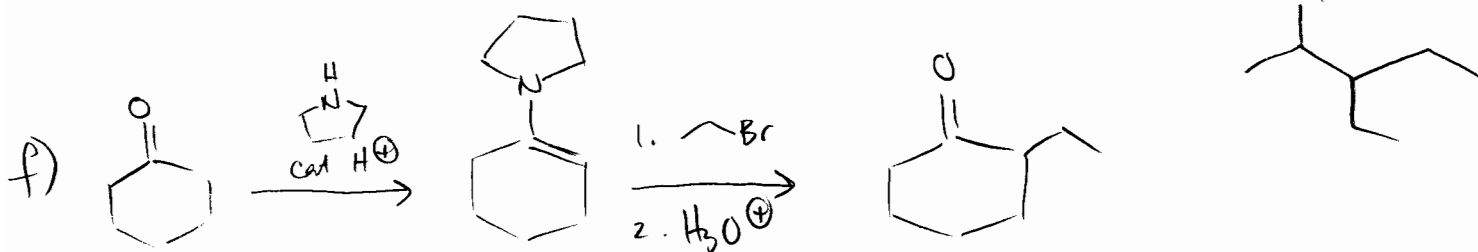
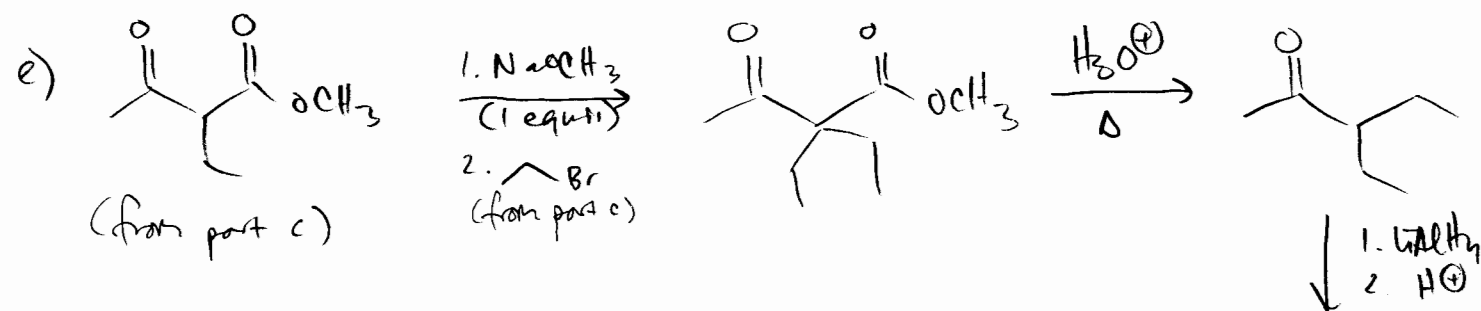
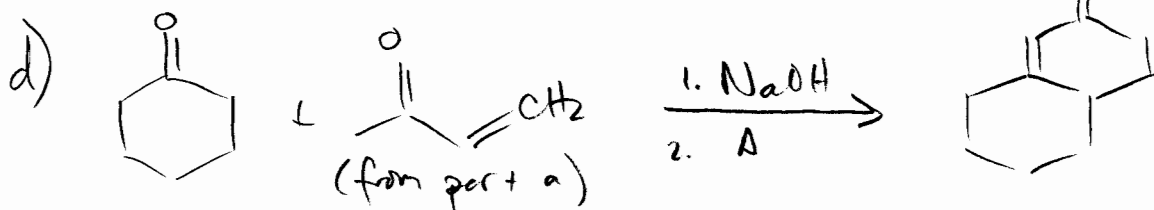
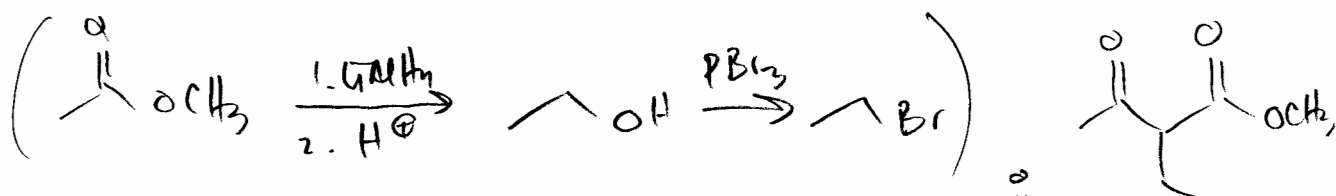
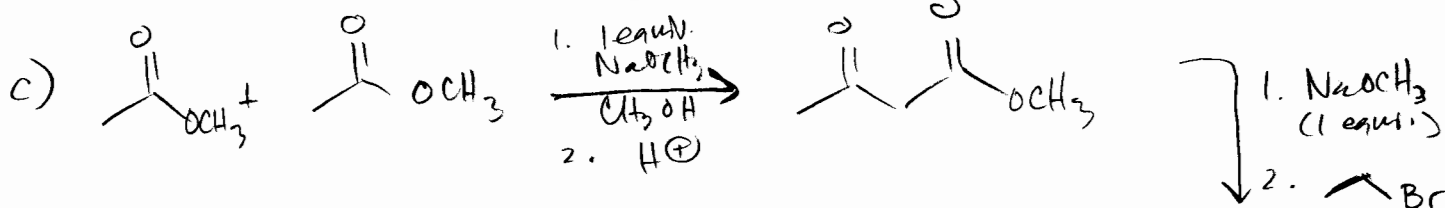
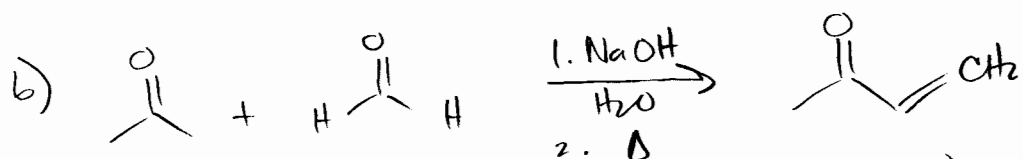
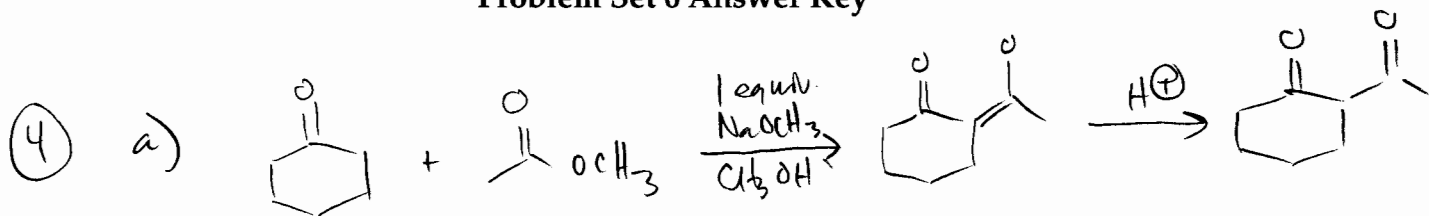
Problem Set 6 Answer Key



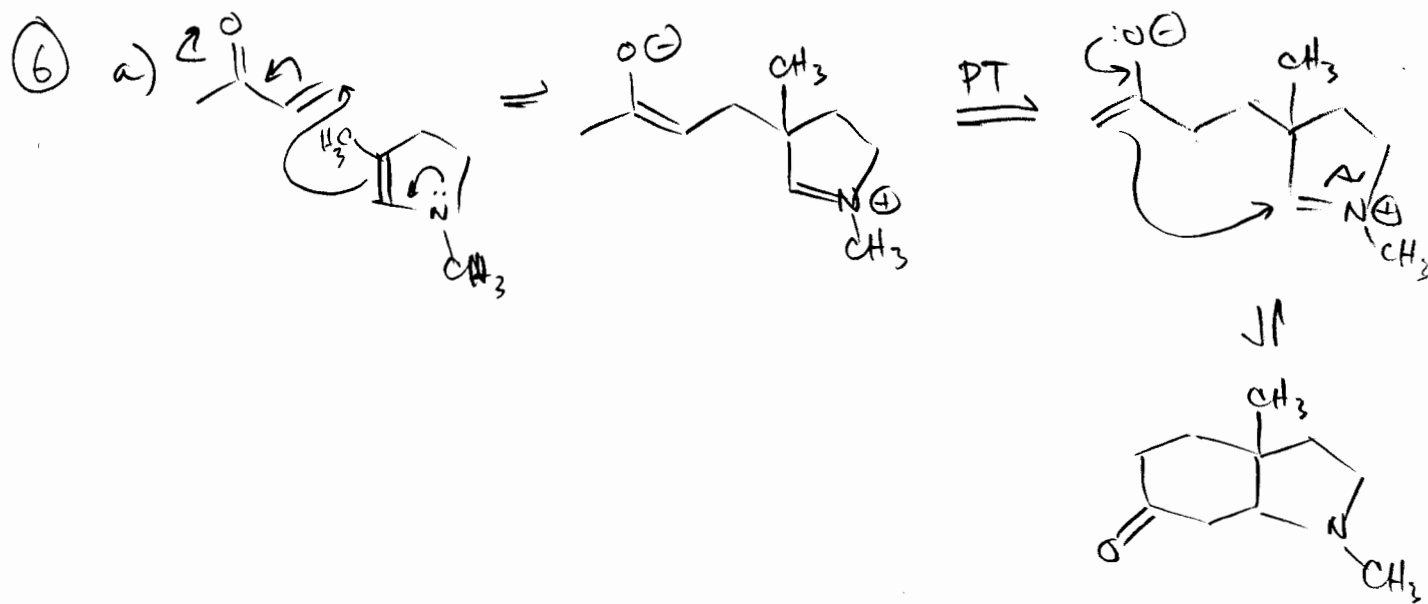
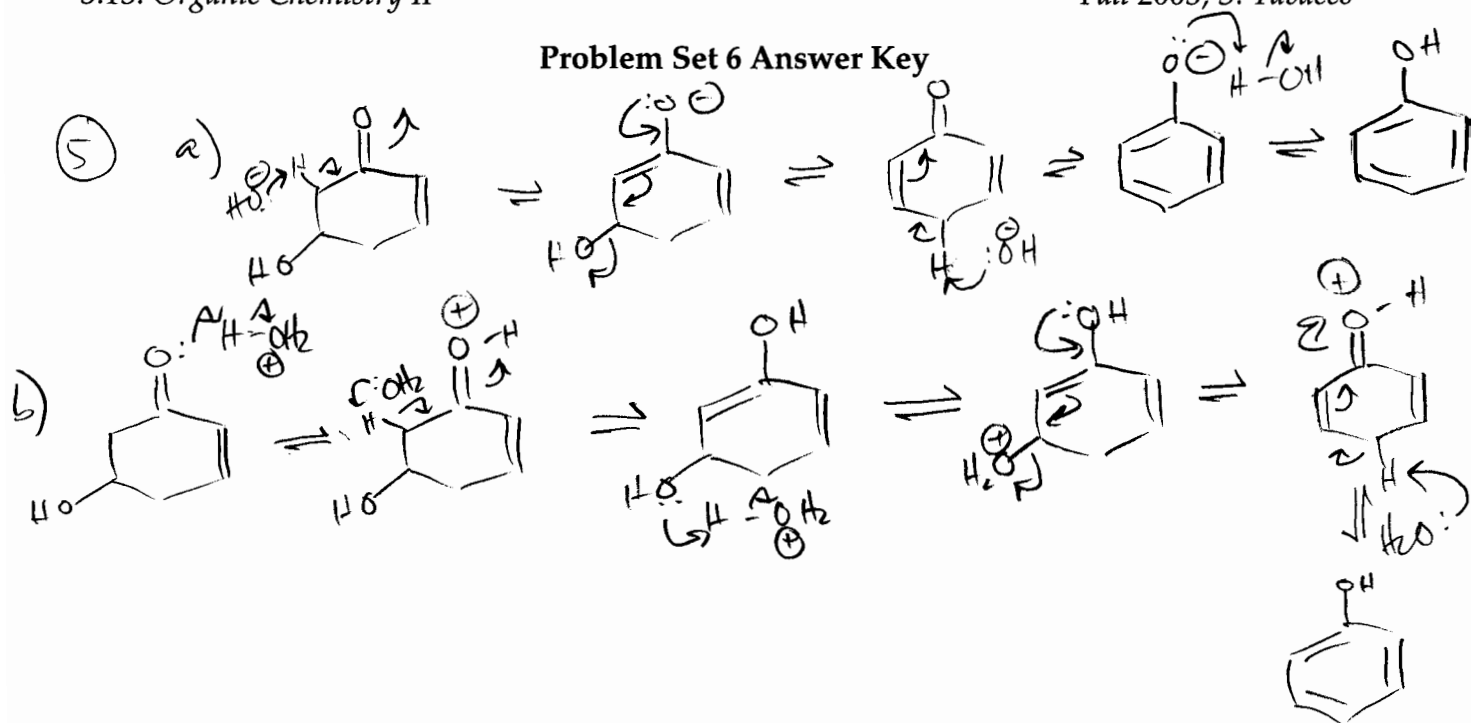
③ Robinson Annulation!



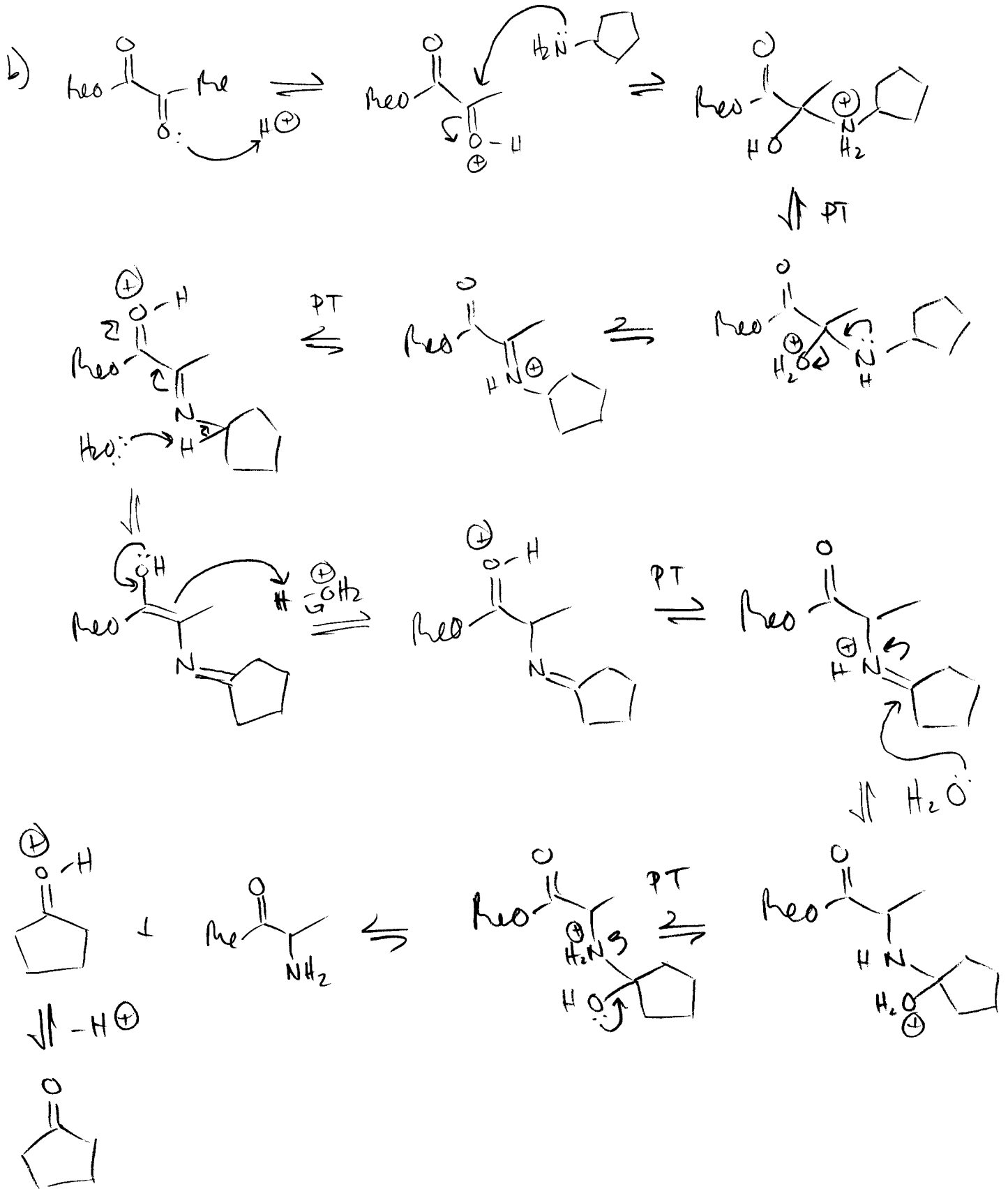
Problem Set 6 Answer Key



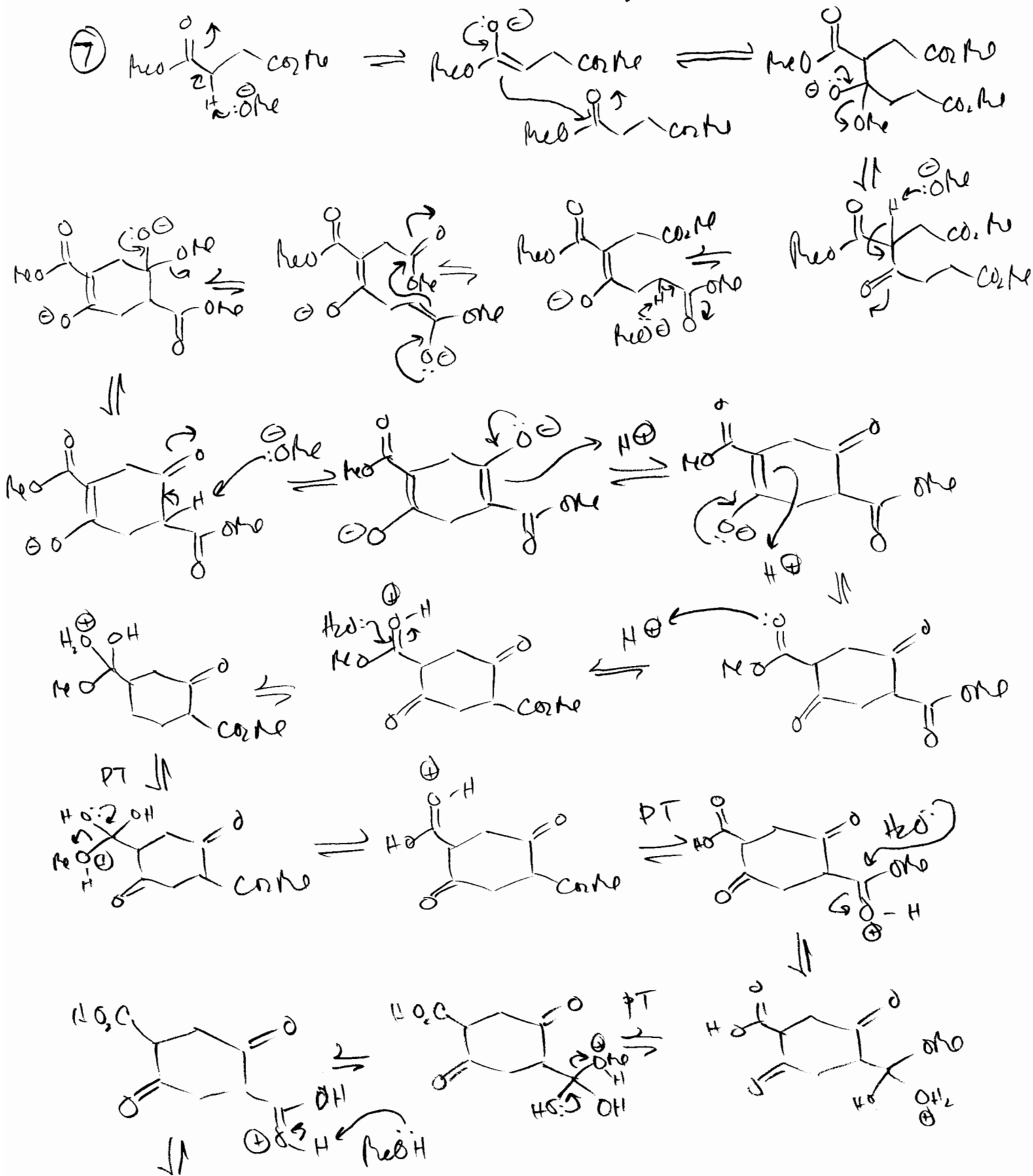
Problem Set 6 Answer Key



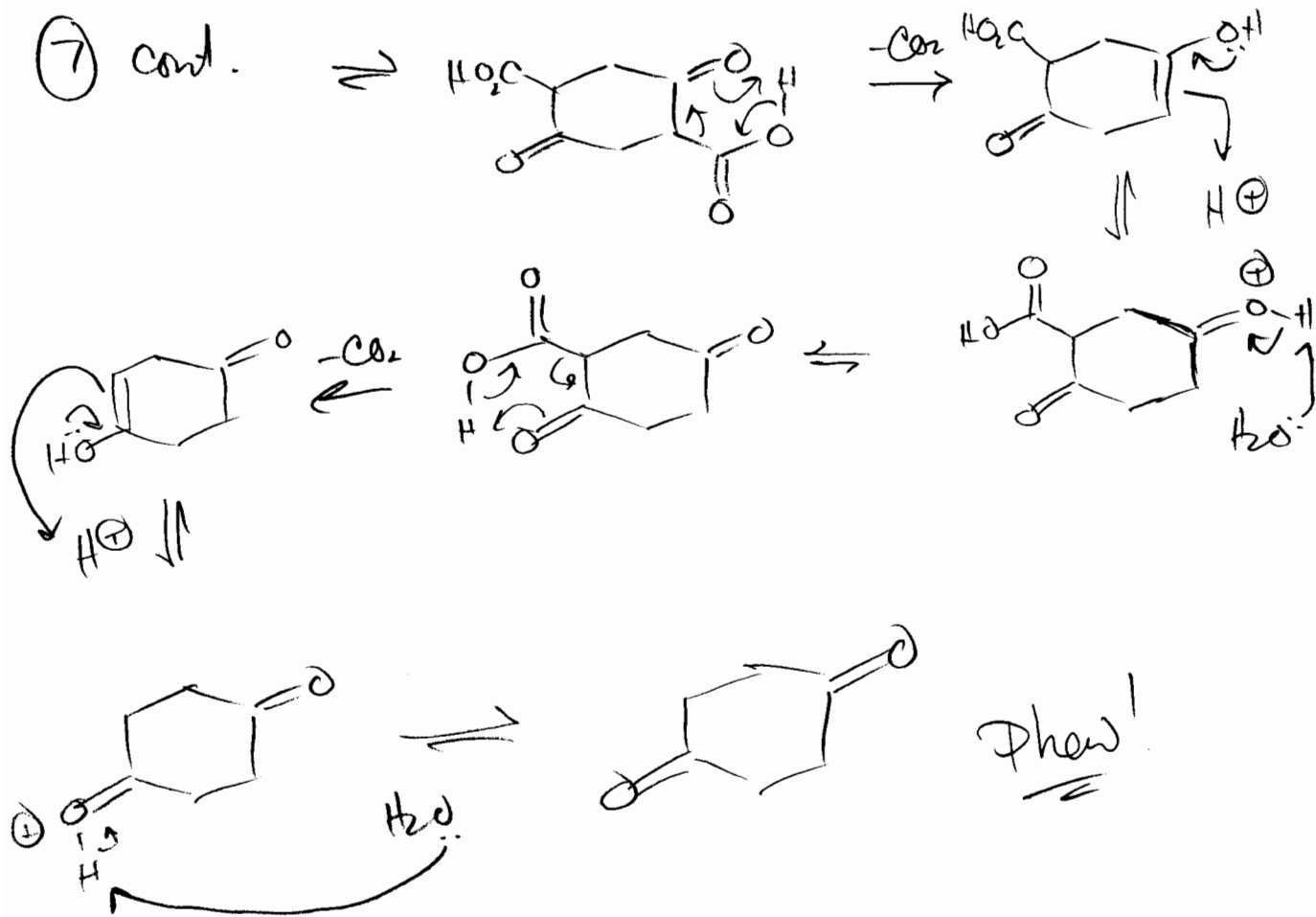
Problem Set 6 Answer Key



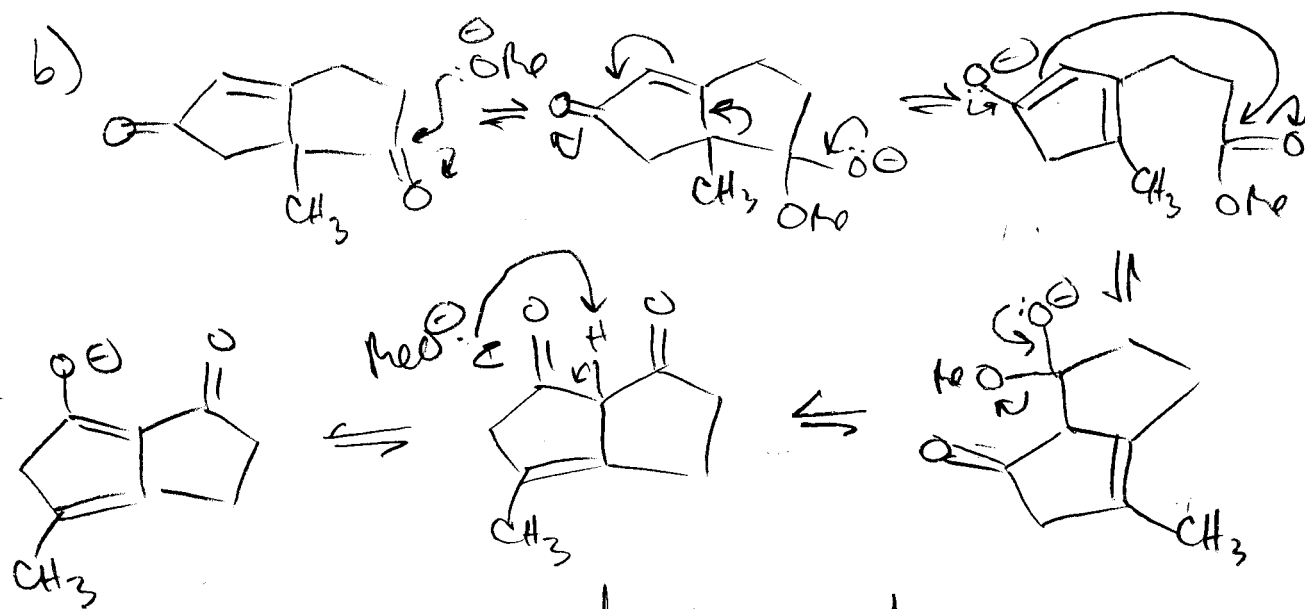
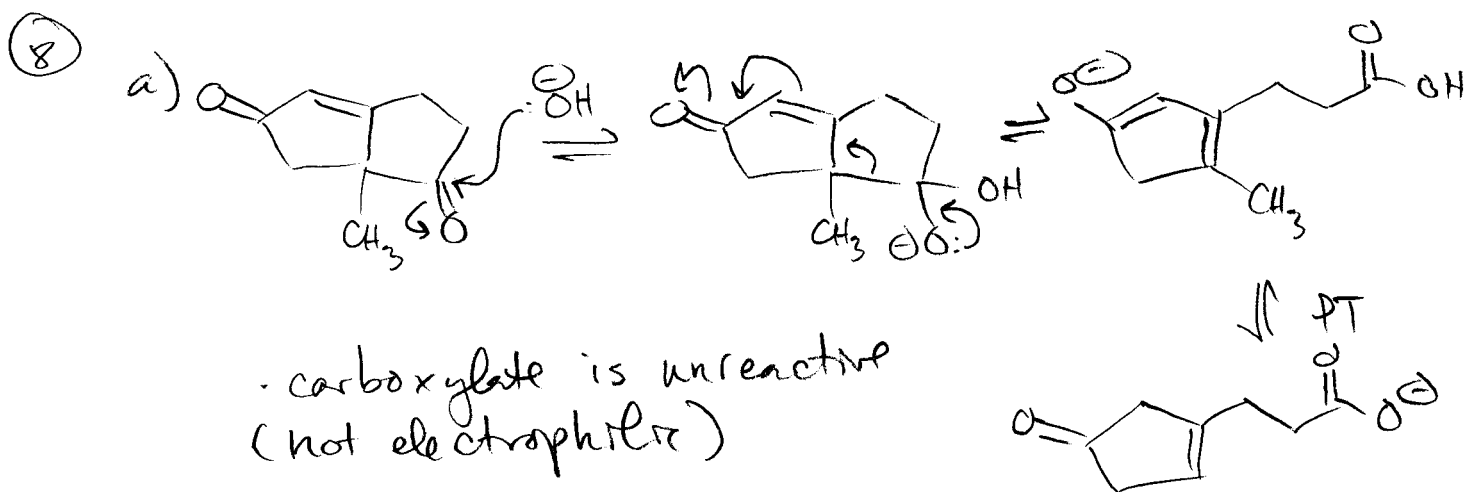
Problem Set 6 Answer Key



Problem Set 6 Answer Key

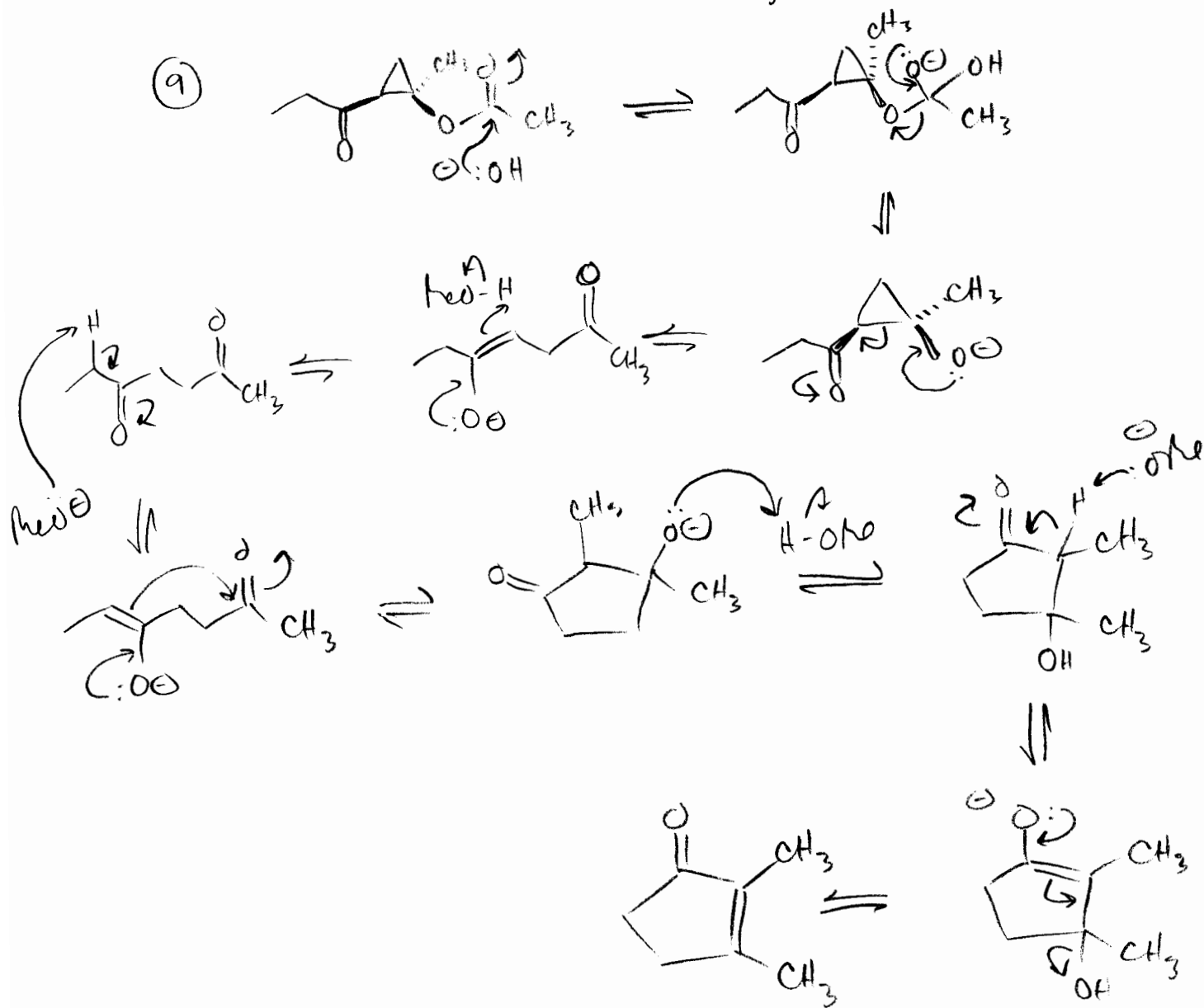


Problem Set 6 Answer Key



Ester generated in 2nd step can
undergo Claisen condensation
w/ enolate

Problem Set 6 Answer Key



Remember: C-C bonds in cyclopropane frequently act more like π -bonds than σ -bonds.

