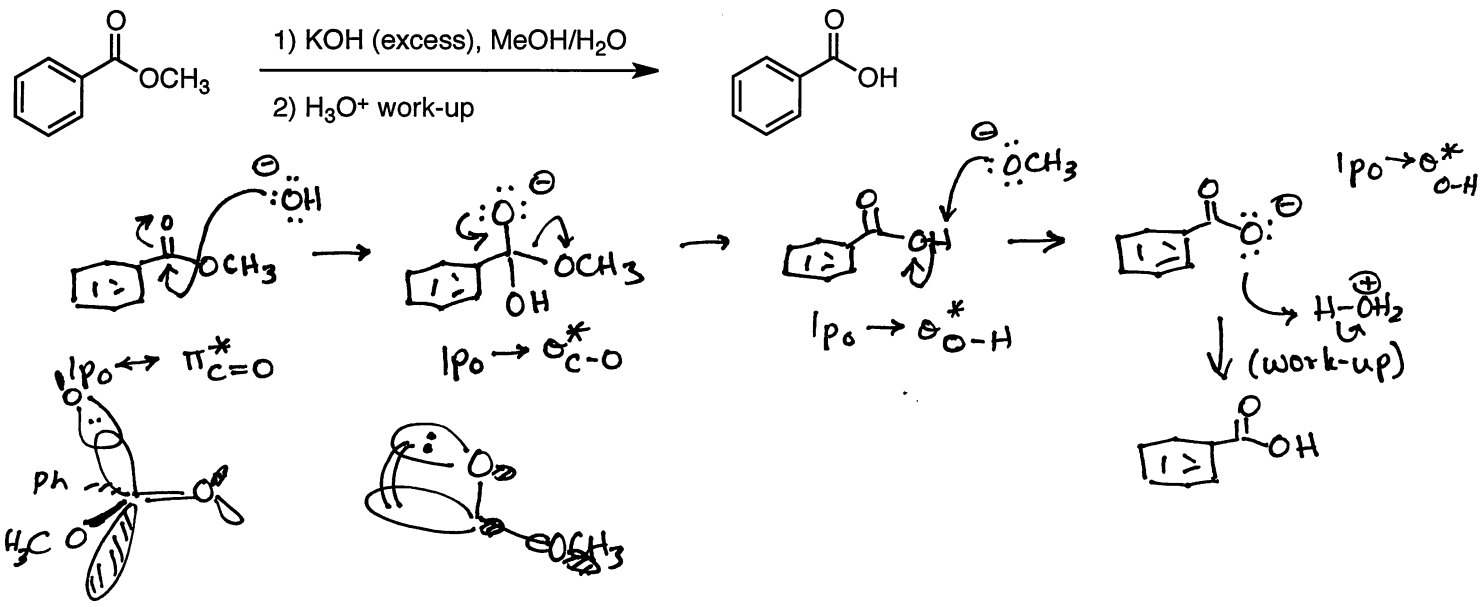
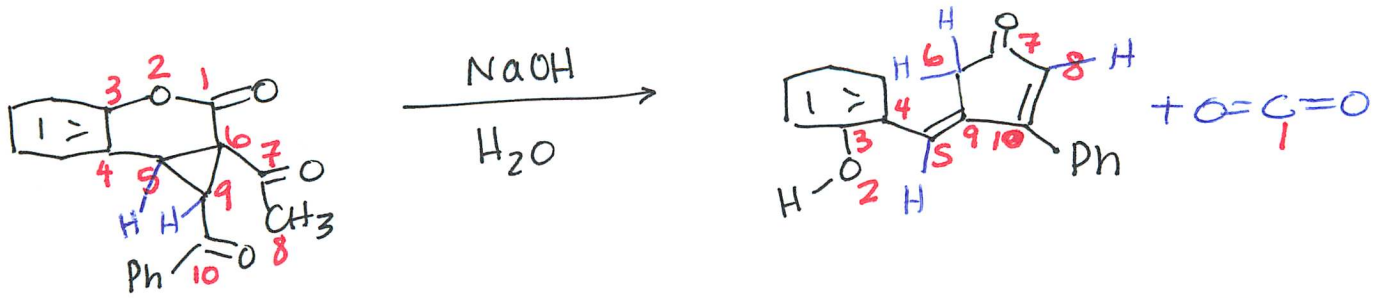
CHEM 633
Arrow-Pushing Mechanisms

Answer Key

Please draw reasonable arrow-pushing mechanisms for the following transformations. For each step, describe the FMO interaction that you are illustrating with your arrow-pushing.





Break	Make
C1–O2	C1=O (CO_2)
C5–C6	O_2–H
C9–H	π C5=C9
C10=O	2 × C6–H
2 × C8–H	C8=C10
C1–C6	

Remember: Most bases can also be nucleophiles! (& vice versa)

Note: Order of cyclopropane ring opening vs. decarboxylation is debatable. Either order is OK.