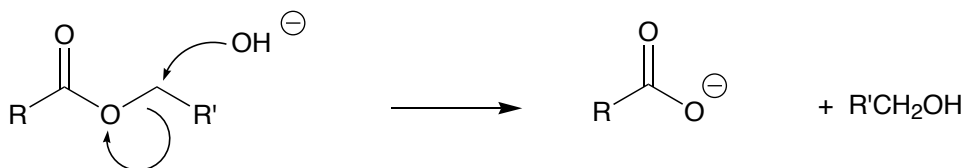


4. (10 pts) One possible, but incorrect, mechanism for base hydrolysis of esters is shown below. This mechanism was disproven by running the reaction with NaOH enriched in  $^{18}\text{O}$ . Carefully describe what the results were in this experiment and how these results disproved the mechanism shown.



5. (10 pts) Circle the more acidic compound below, and EXPLAIN your reasoning.

