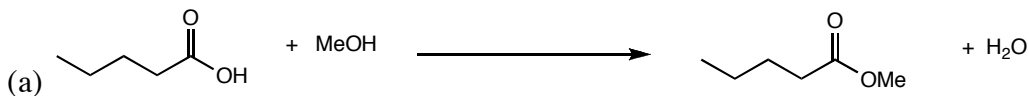


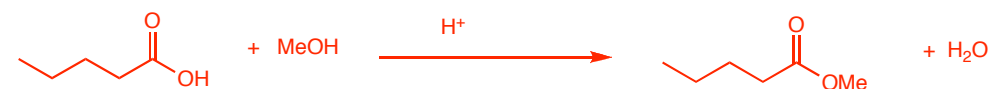
1. Neither of the following reactions work as drawn. Explain why, and propose an alternative method to make the product from the starting material (your alternative may require more than one step).



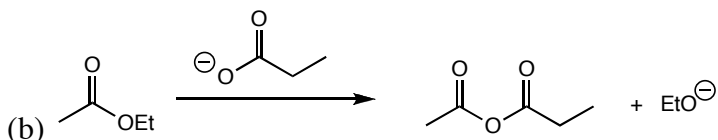
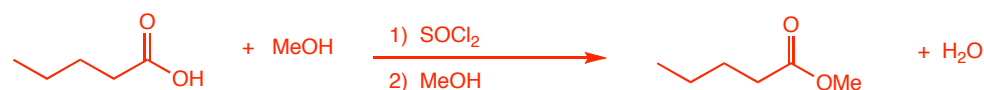
This reaction will not work because...

The carboxylic acid is not electrophilic enough to react with a neutral nucleophile

My alternative would be...



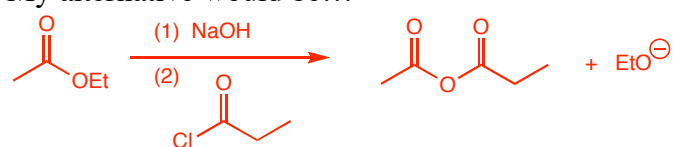
--or--



This reaction will not work because...

The anhydride that is formed is less stable than the ester. The equilibrium would favor the ester.

My alternative would be...



2. Choose one of the reactions you chose as an alternative, and draw the mechanism.

See textbook for mechanisms