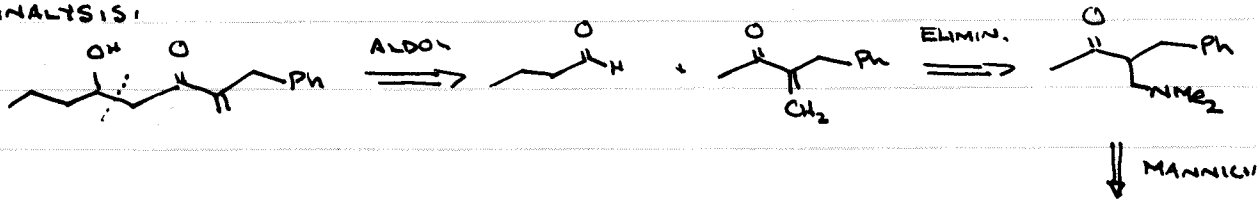
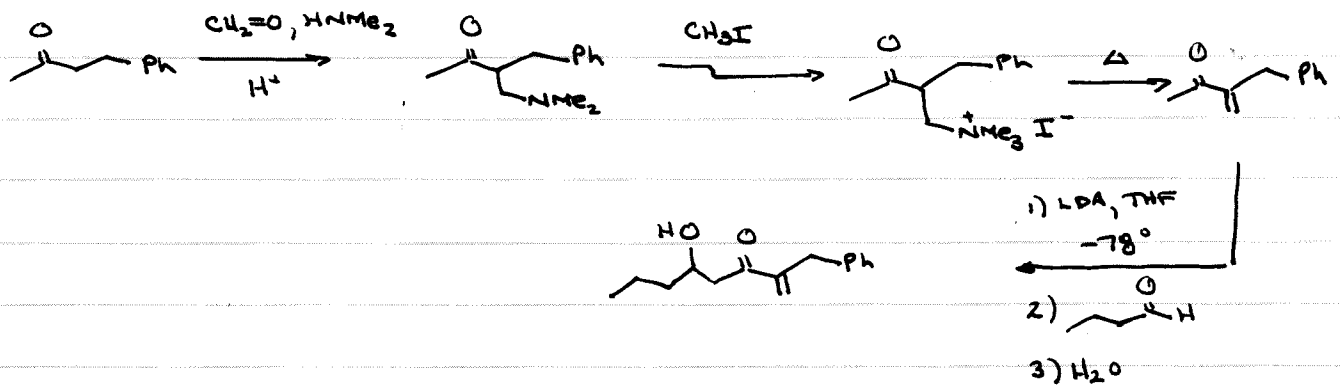


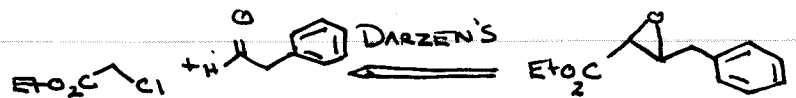
3. a) ANALYSIS:



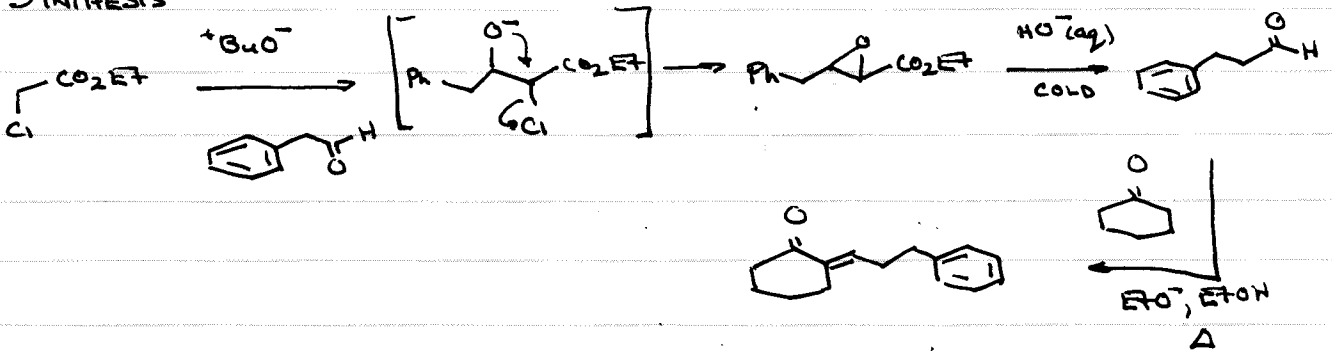
SYNTHESIS:



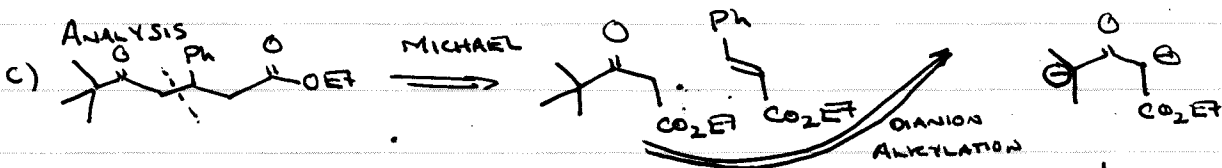
b) ANALYSIS:



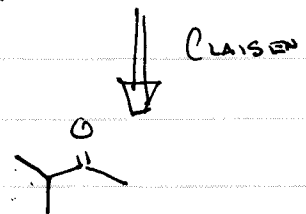
SYNTHESIS



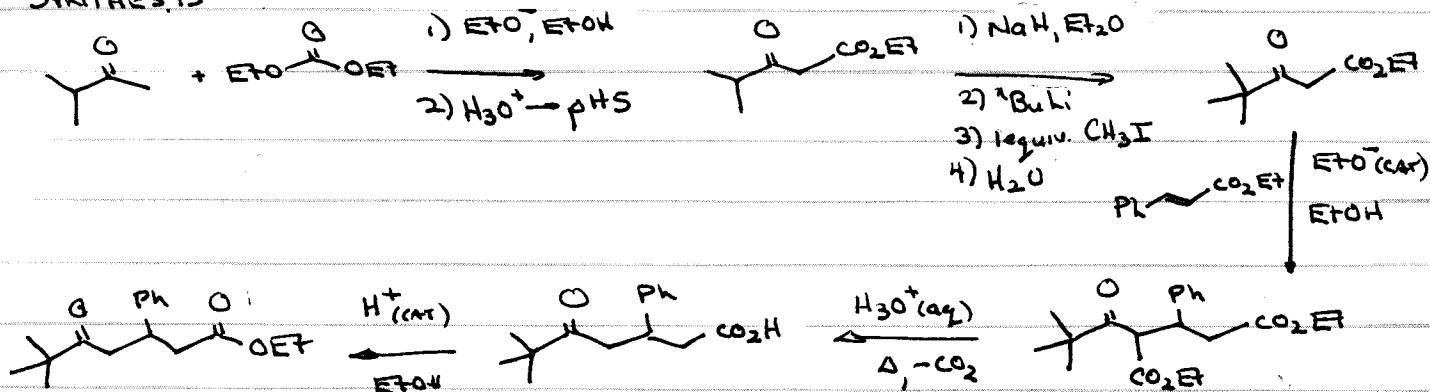
c) ANALYSIS



NOTE: THERE ARE SEVERAL OTHER EQUALLY ACCEPTABLE APPROACHES



SYNTHESIS



BONUS: NUCLEOPHILIC AROMATIC SUBSTITUTION IS POSSIBLE WHEN YOU HAVE A STRONG ENOUGH (OR SEVERAL) ELECTRON WITHDRAWING GROUP(S) ON THE RING, AND AN ACCEPTABLE LEAVING GROUP. THE MECHANISM IS THEN LIKE A MICHAEL ADDITION, FOLLOWED BY AN ELIMINATION (THIS WOULD BE ANOTHER OF THOSE E1cB ELIMINATIONS)

