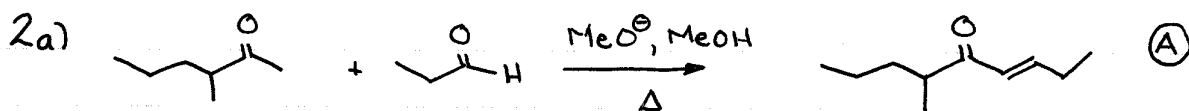
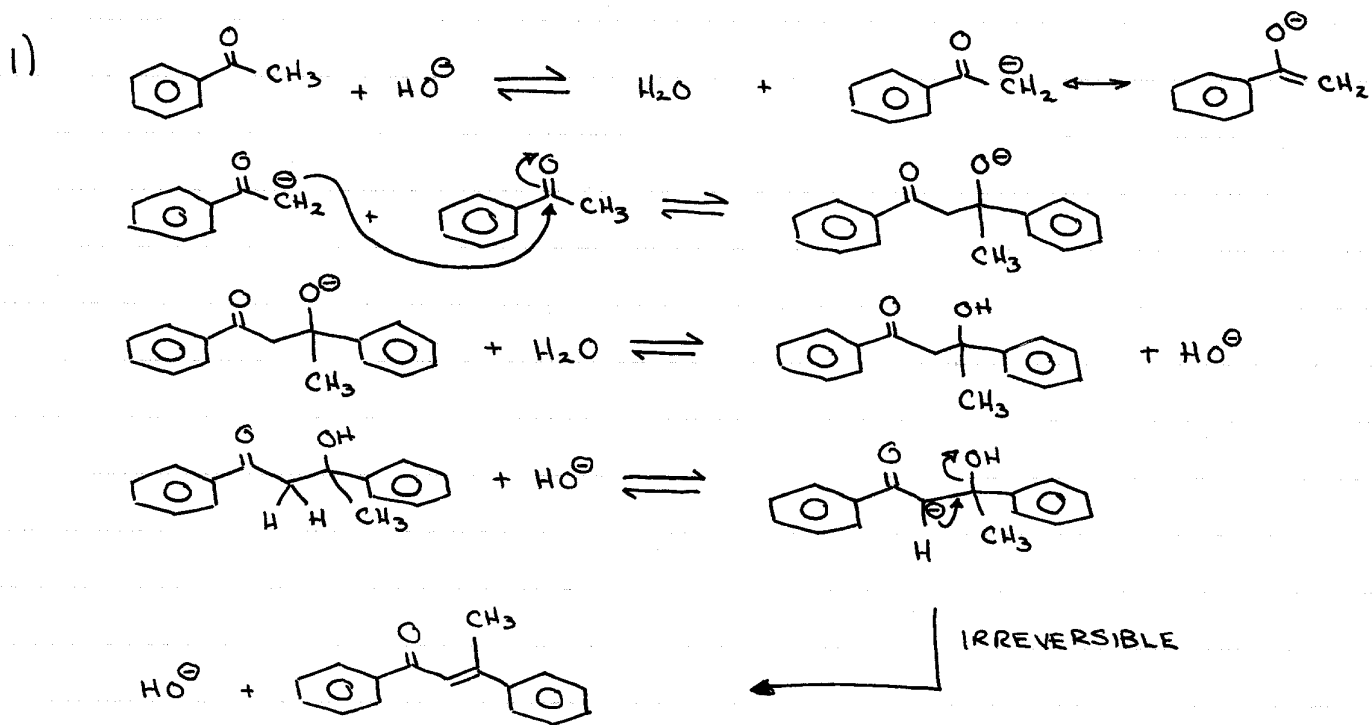


ASSIGNMENT # 1 - SUGGESTED SOLUTIONS



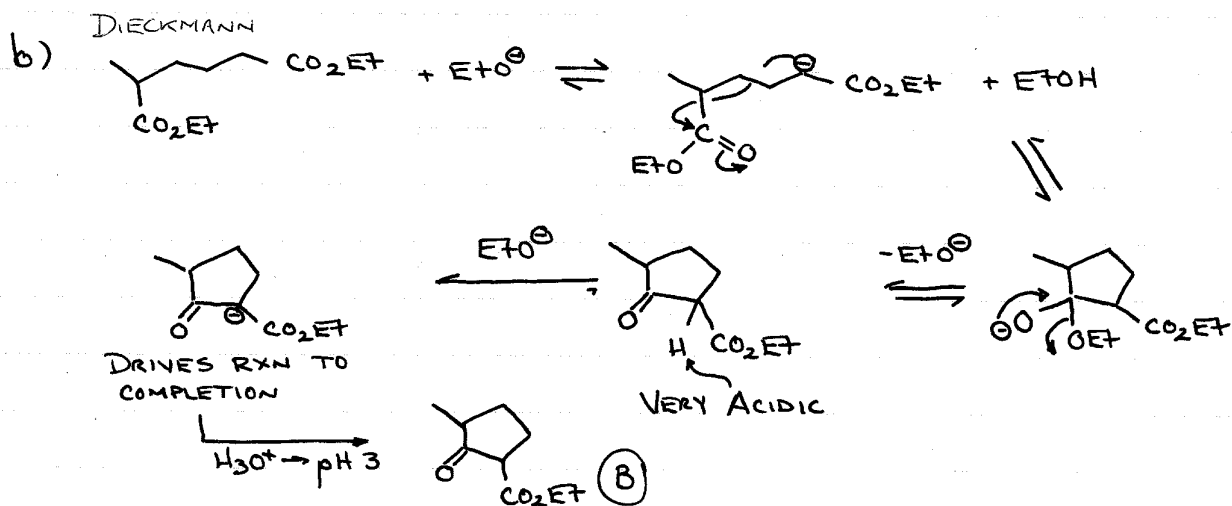
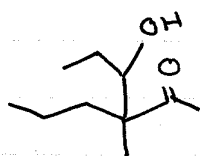
NOTE: PRODUCT THROUGH MORE SUBSTITUTED SIDE OF KETONE (ENOLATE), I.E.,

CANNOT ELIMINATE - NO ACIDIC α -PROTON

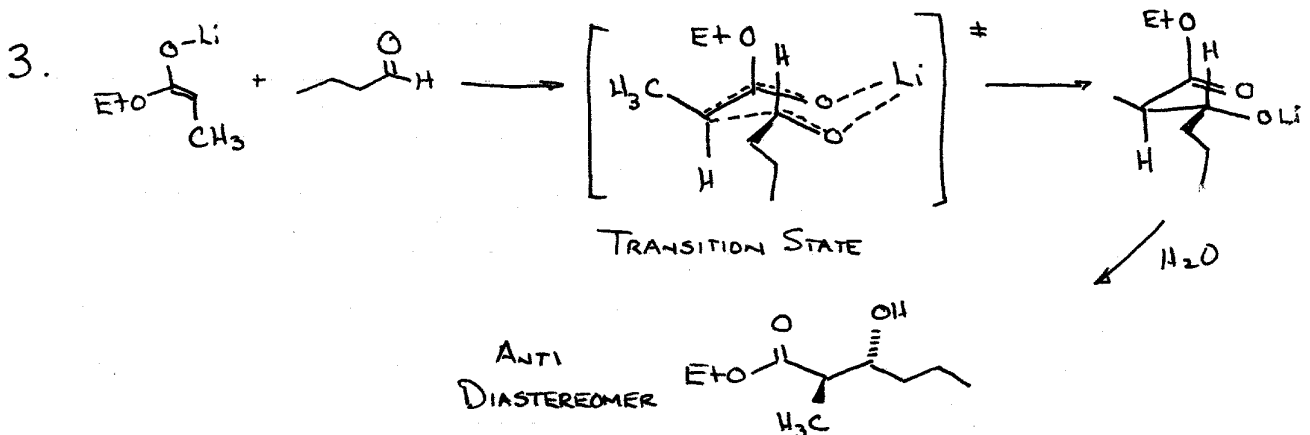
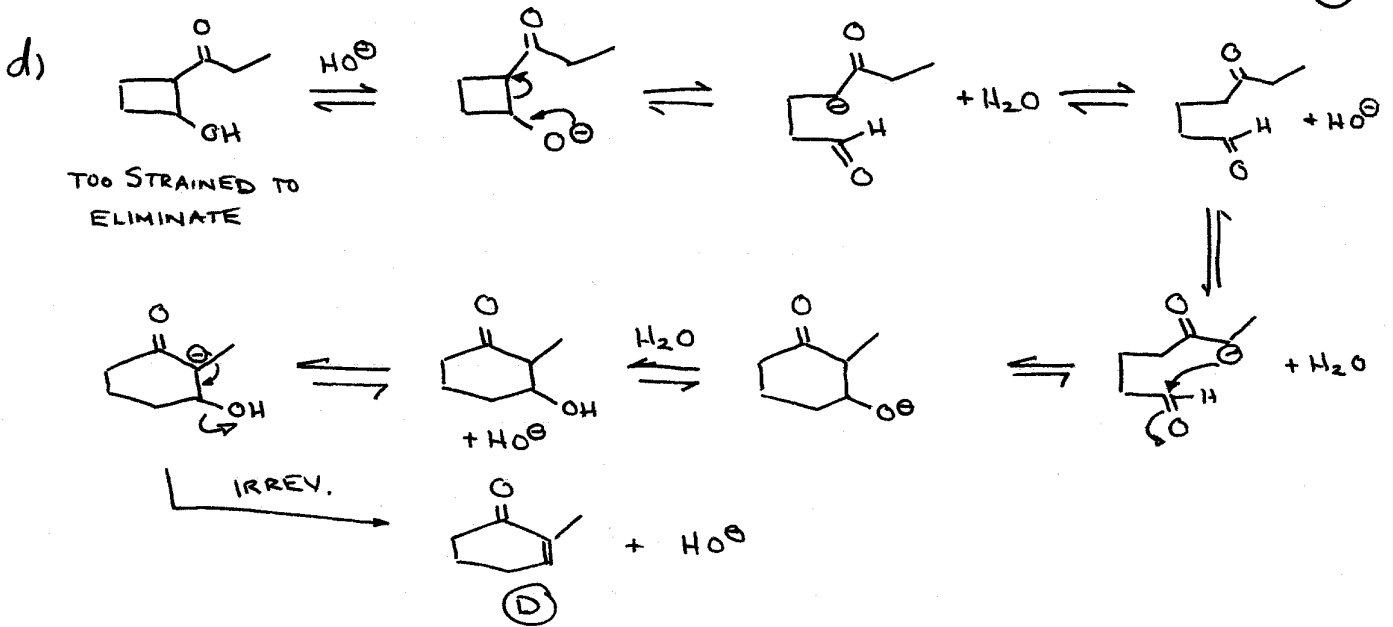
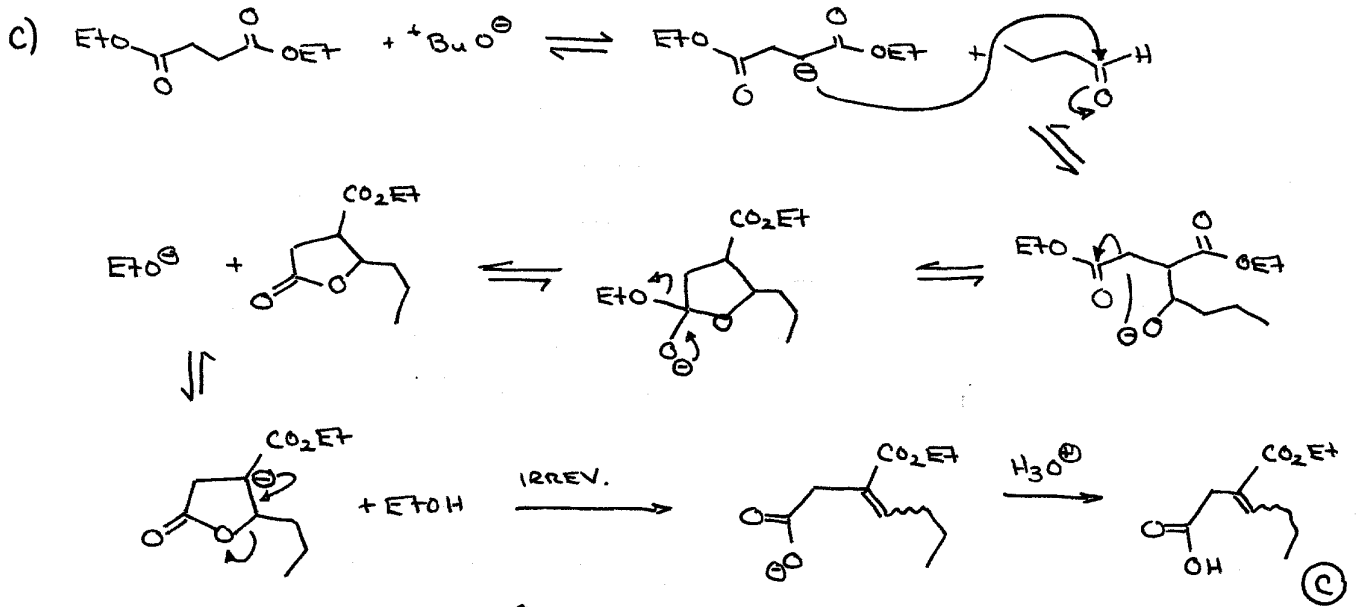
\therefore NO IRREVERSIBLE STEP

-ALSO ALD + KETONE GIVES RXN BASED ON KETONE

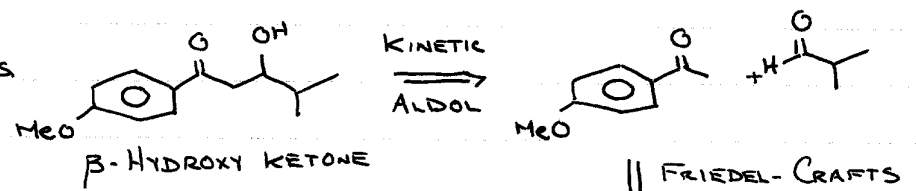
ENOLATE + ALDEHYDE $\text{C}^{\delta+}$



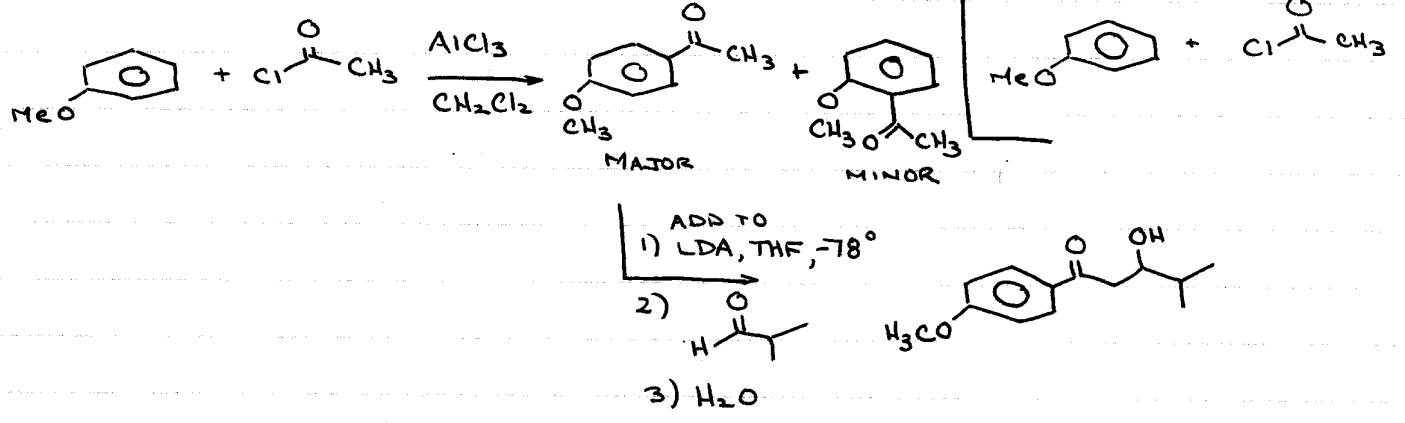
STOBBE



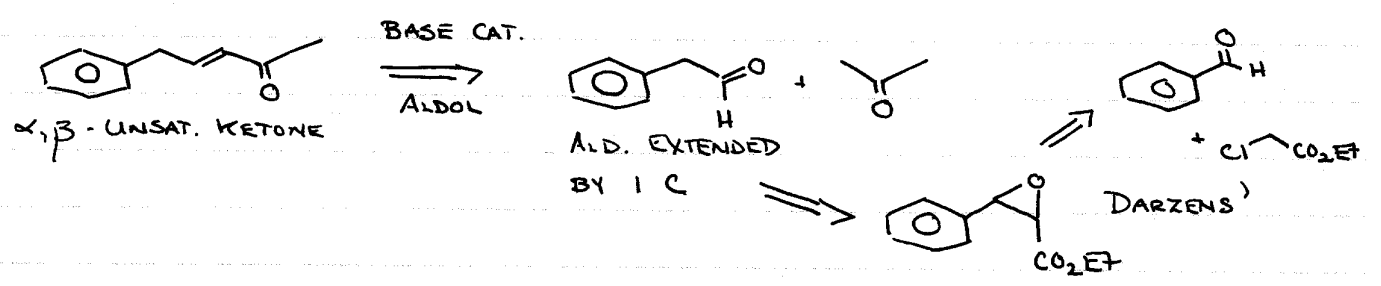
4a) RETROSYNTHETIC ANALYSIS



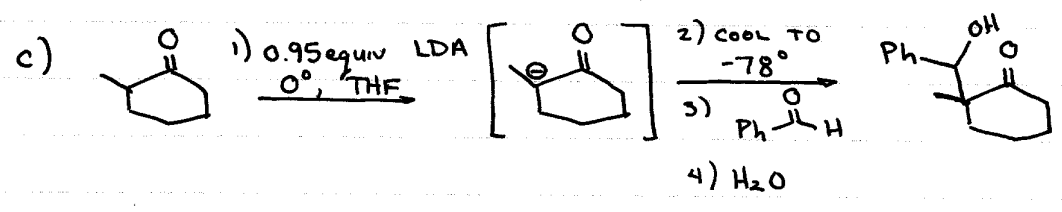
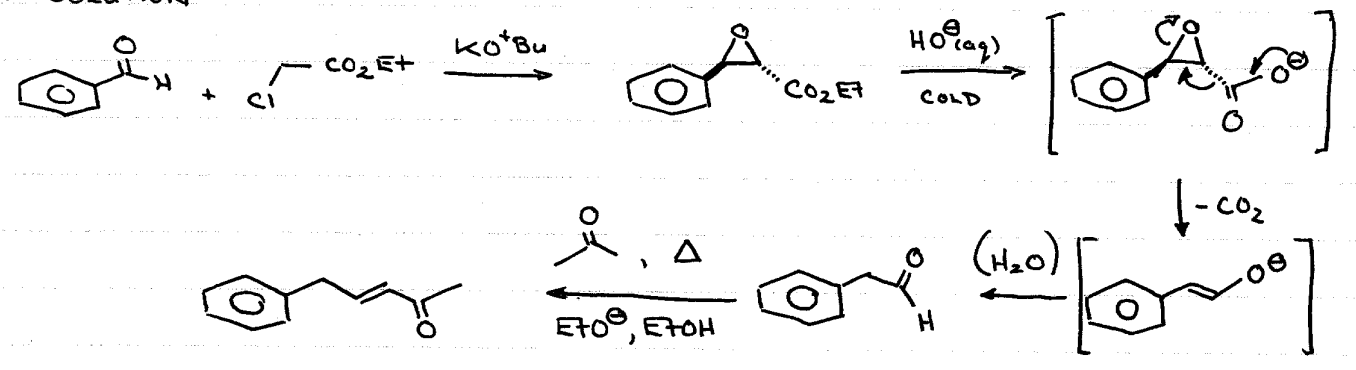
∴ SOLUTION



b) RETROSYNTHETIC ANALYSIS:



∴ SOLUTION



KEY: MUST EQUILIBRATE ENOLATES, BUT MUST HAVE ~100% (95% OK) ENOLATE FORMATION