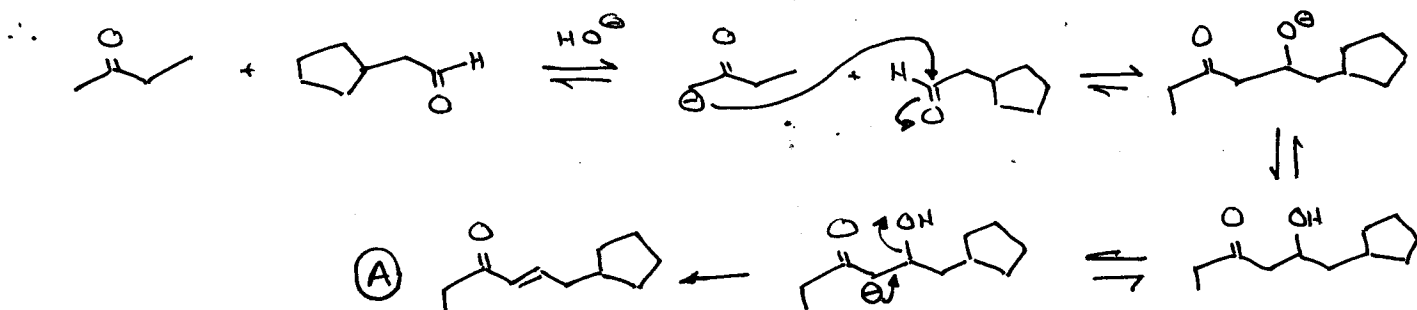
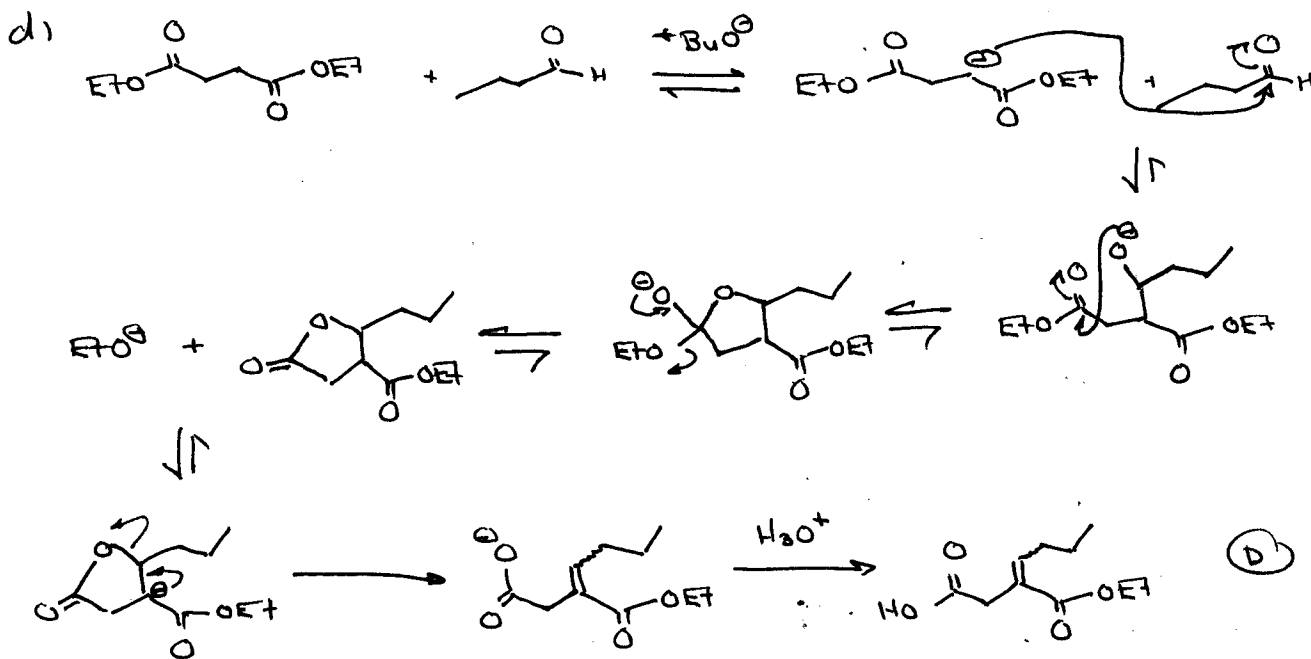
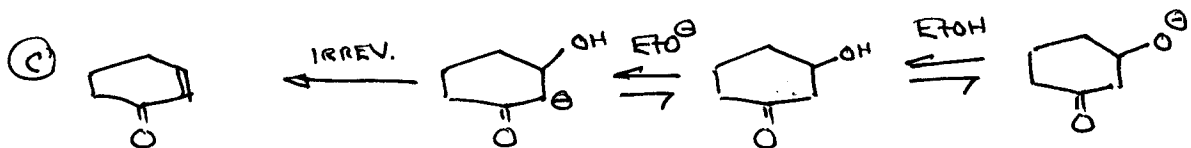
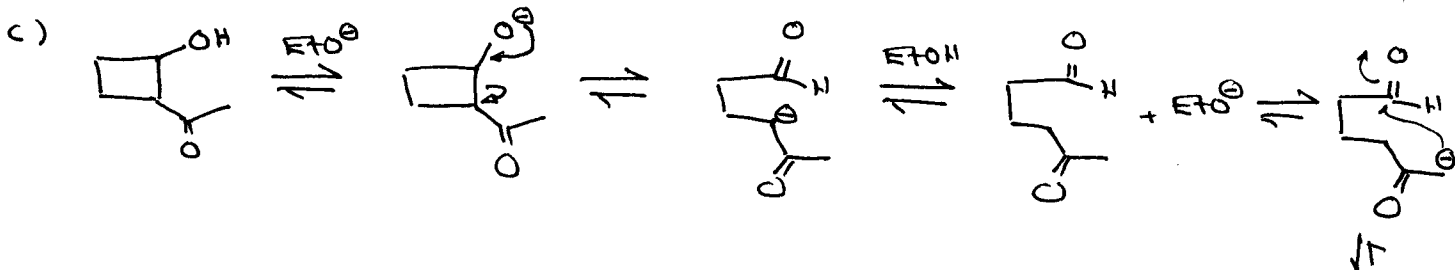
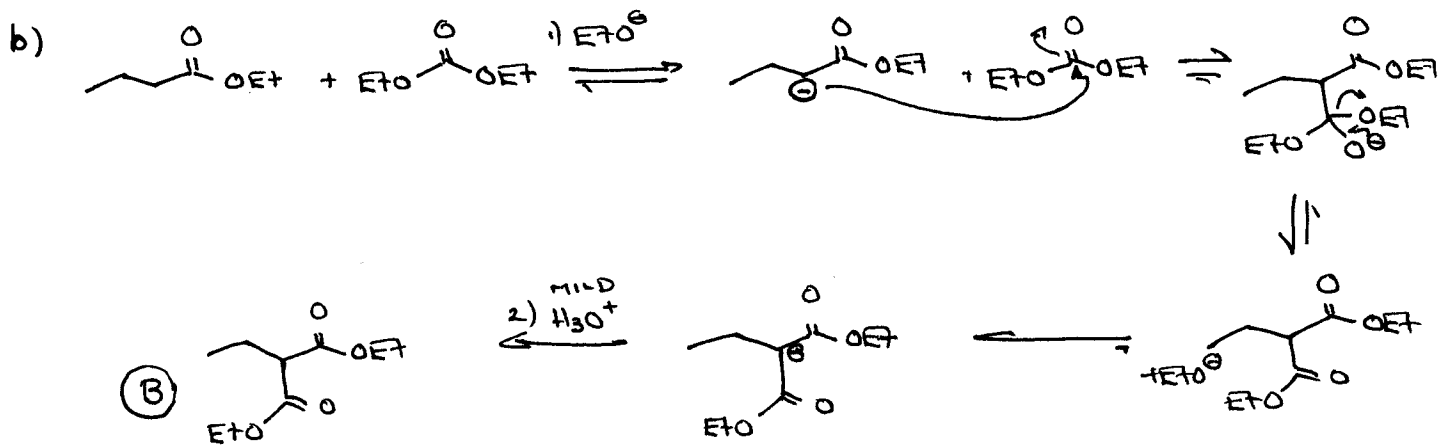
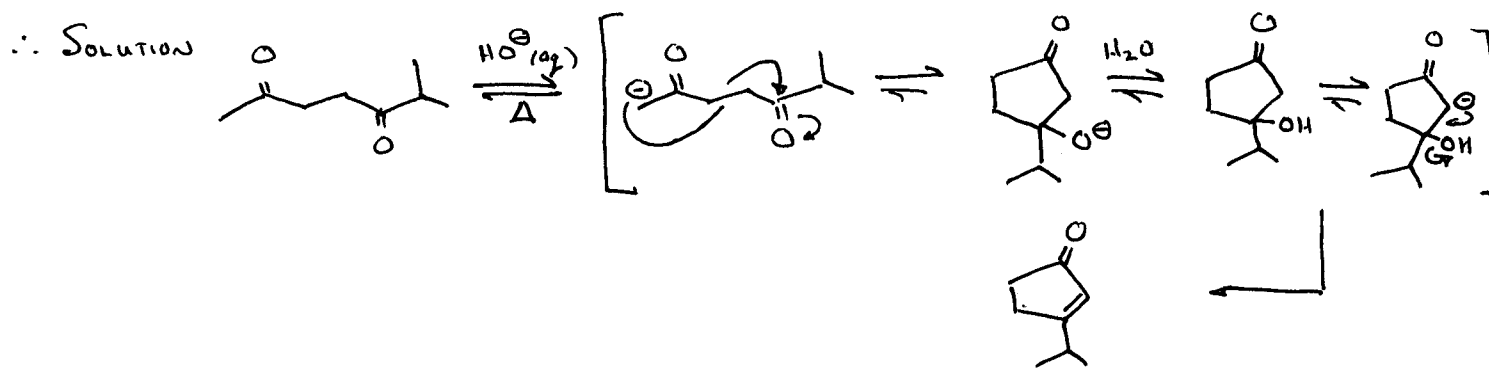
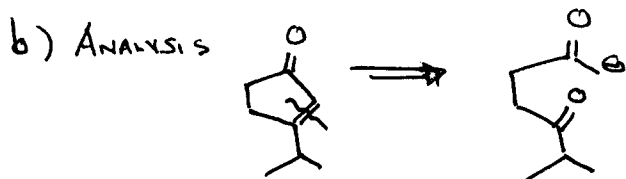
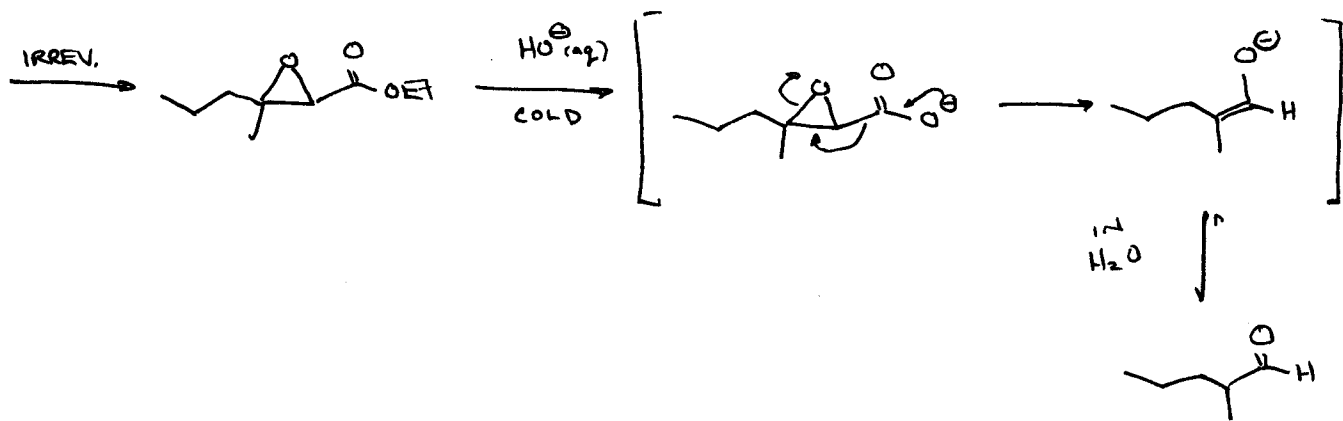


3 a) WITH UNSYMMETRICAL KETONES, BASE CATALYZED ALDOLS 'GO' THROUGH LESS SUBST. SIDE. WITH A CROSSED ALDEHYDE + KETONE ALDOL, THE REACTION OF THE KETONE ENOLATE WITH ALDEHYDE ELECTROPHILE IS MAJOR ROUTE.







c) HERE'S THE PROBLEM:

THE BASE CATALYZED ( $\text{EtO}^{\ominus}/\text{EtOH}$ ,  $\text{HO}^{\ominus}/\text{H}_2\text{O}$ ) NORMALLY FORCES THE ELIMINATION TO THE  $\alpha,\beta$ -UNSATURATED KETONE

WHAT YOU NEED IS A 'KINETIC ALDOL' WHERE YOU'VE USED THE BASE SUCH THAT IT MAKES THE 'WRONG' ENOLATE - THIS WILL HAPPEN IF YOU HAVE EXCESS KETONE IN THE PRESENCE OF A DEFICIENCY OF THIS BASE.

