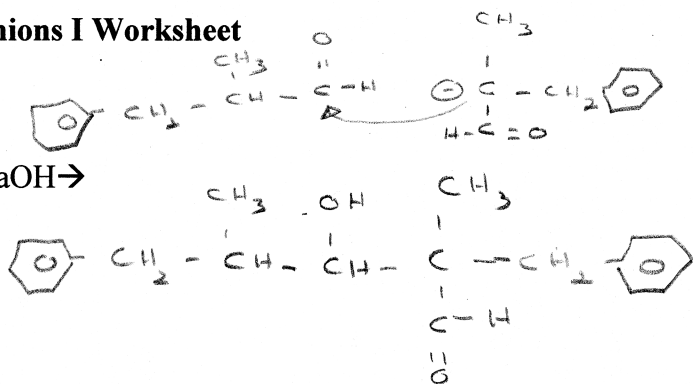
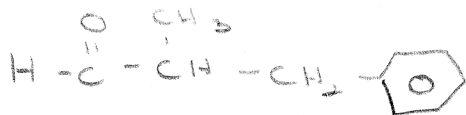


Chapter 21: Carbanions I Worksheet

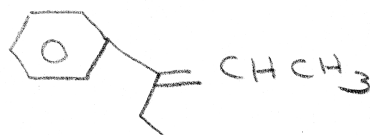
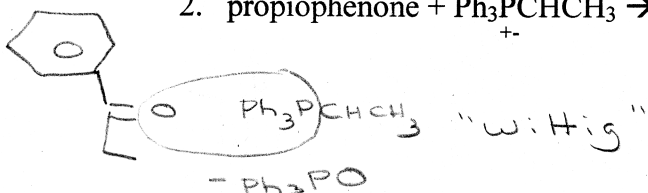
REACTIONS:

aldol

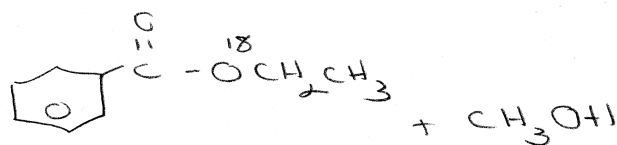
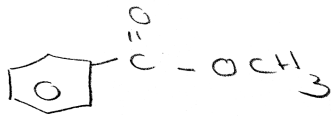
1. 2-methyl-3-phenylpropanal + dilute NaOH →



2. propiophenone + $\text{Ph}_3\text{PCH}_2\text{CH}_3 \rightarrow$

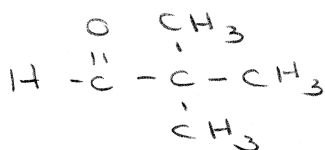


3. methyl benzoate + $\text{CH}_3\text{CH}_2^{18}\text{O}^-\text{H}$, $\text{H}^+ \rightarrow$

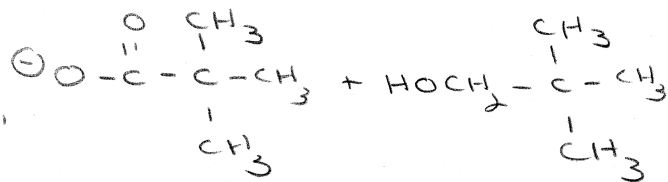


"Transesterification"

4. 2,2-dimethylpropanal, conc. NaOH →

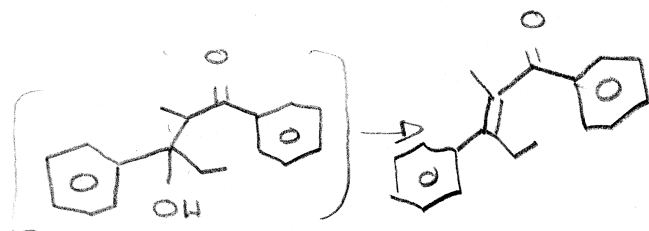
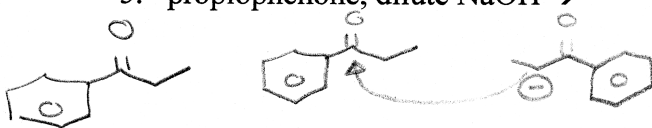


"Cannizzaro"



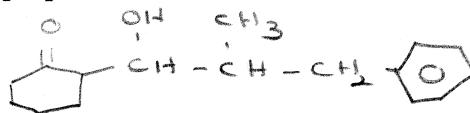
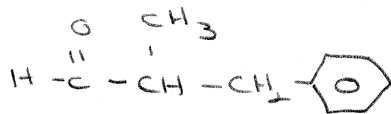
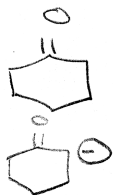
aldol

5. propiophenone, dilute NaOH →



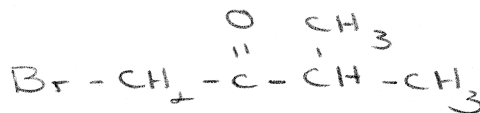
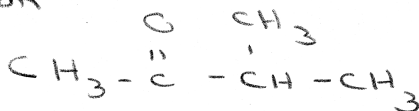
crossed aldol

6. cyclohexanone + 2-methyl-3-phenylpropanal, dilute NaOH →



alpha-halogenation

7. 3-methyl-2-butanone + Br_2 , $\text{OH}^- \rightarrow$



$1^\circ > 2^\circ > 3^\circ$