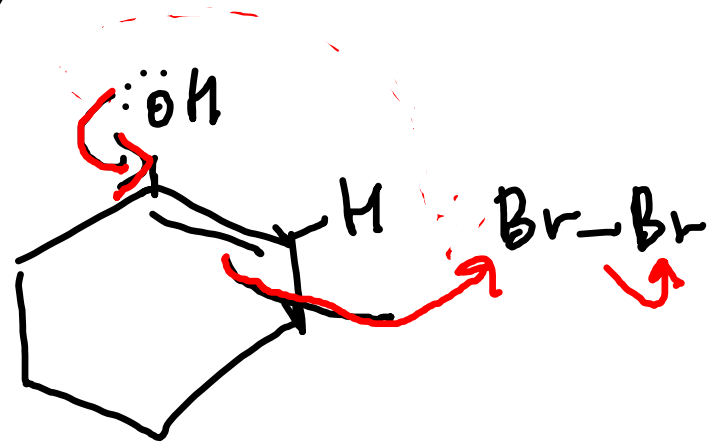
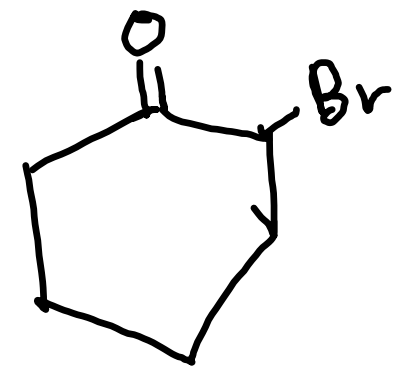
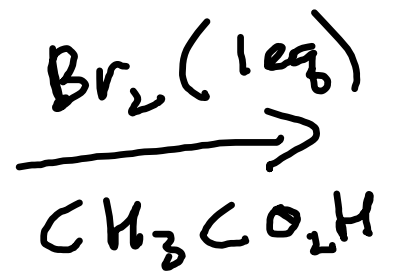
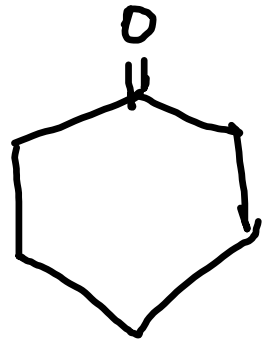
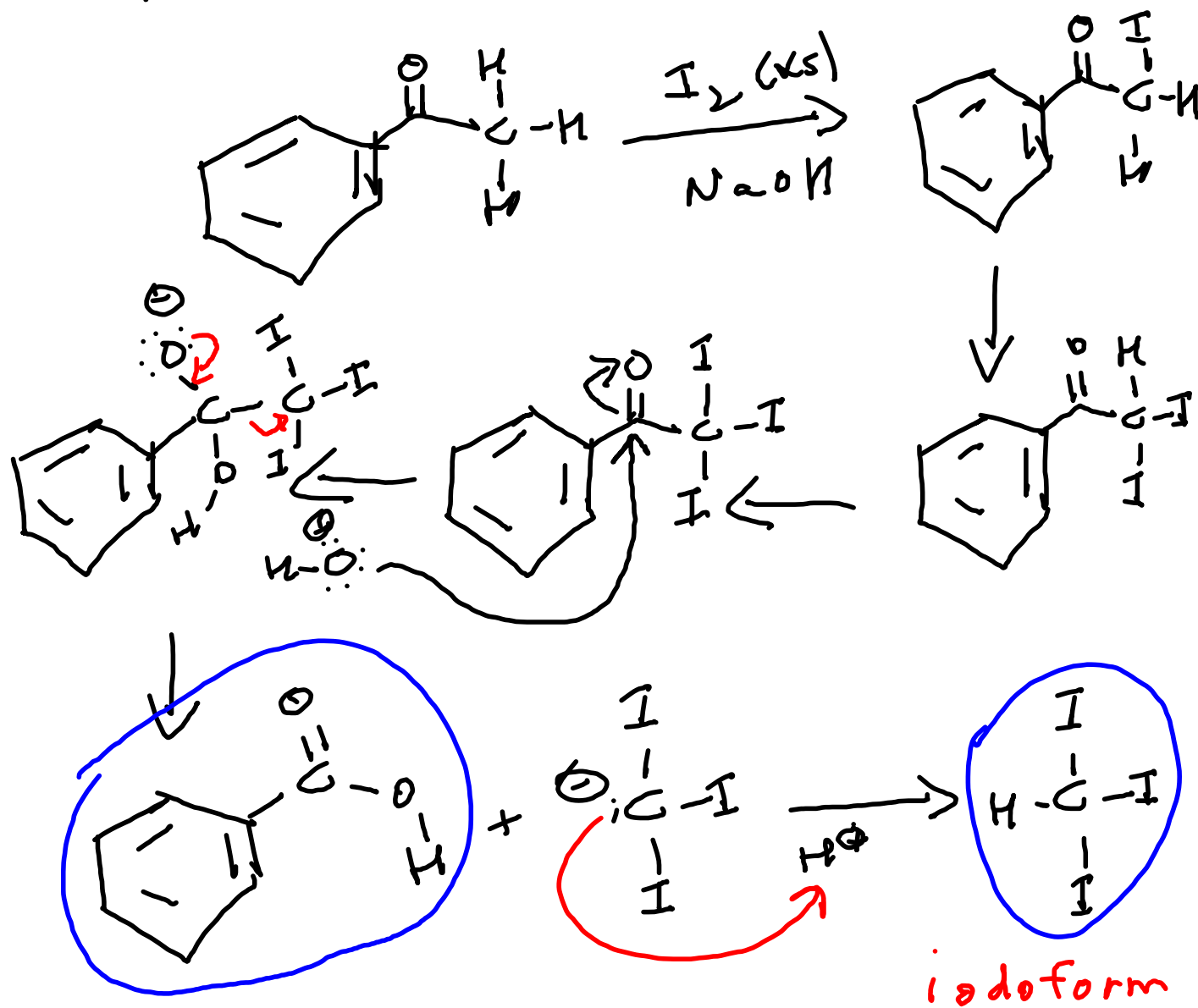


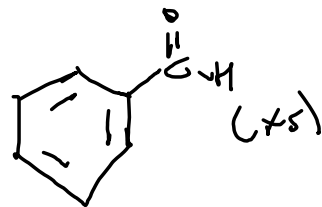
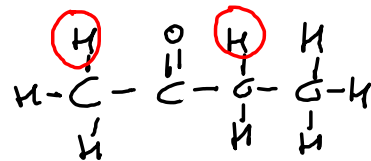
11)
a)



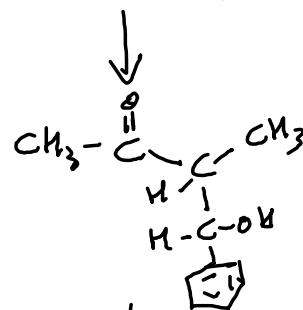
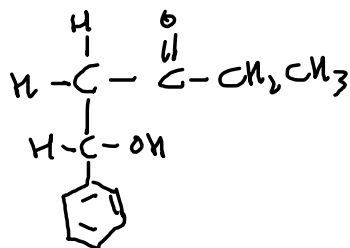
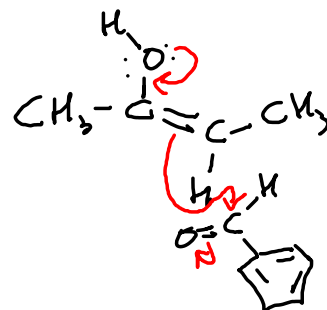
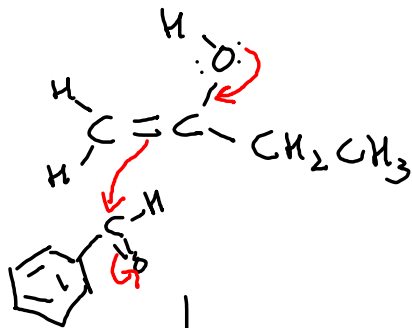
ii b) acetophenone



ii d) 2-butanone + benzaldehyde

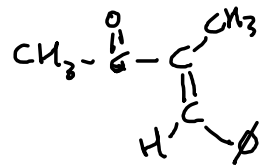
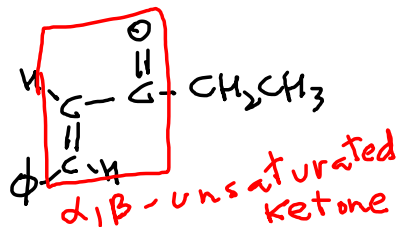


$\downarrow \text{H}_2\text{SO}_4, \text{heat}$

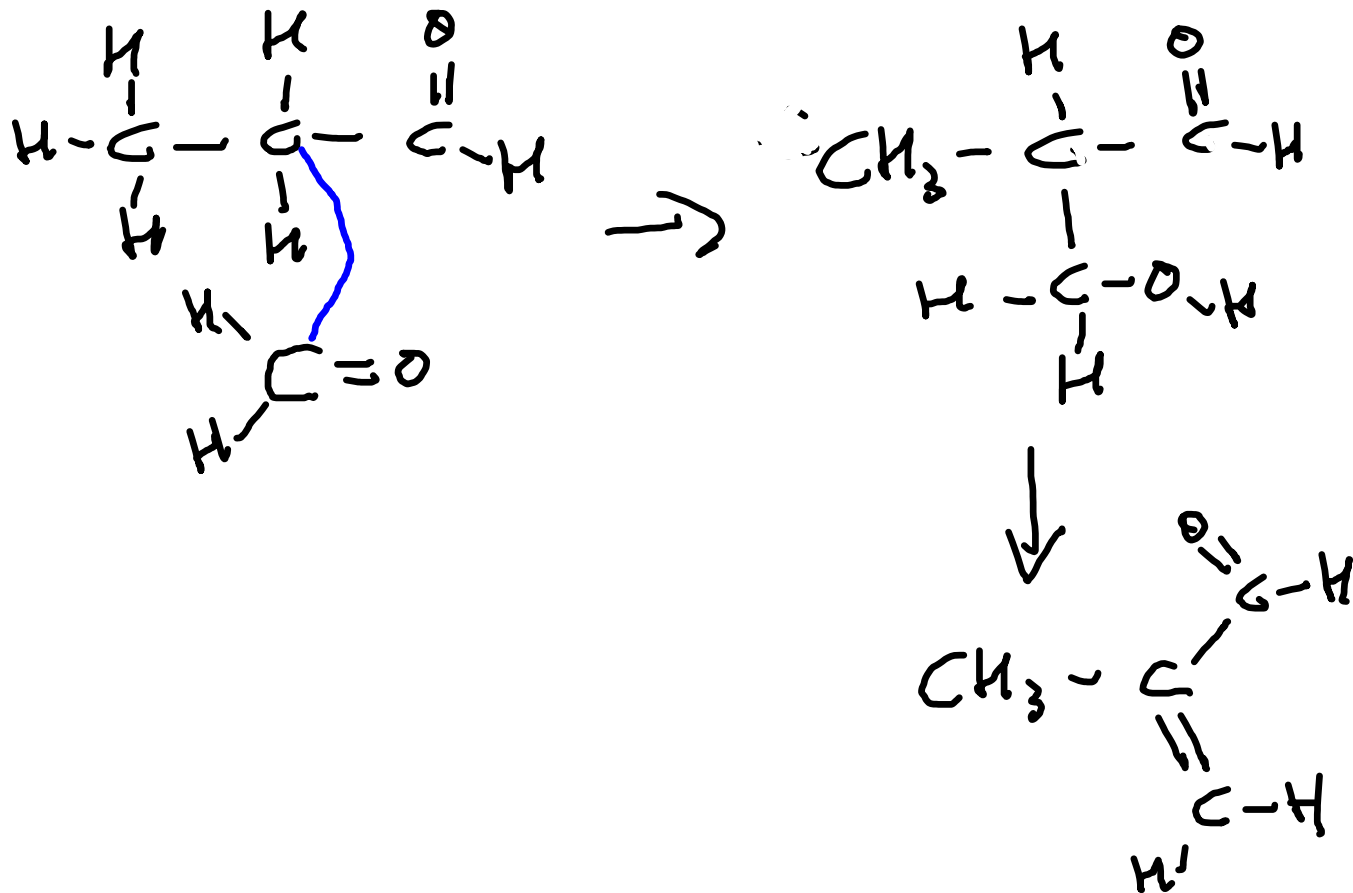


$\downarrow \text{H}_2\text{SO}_4/\Delta$

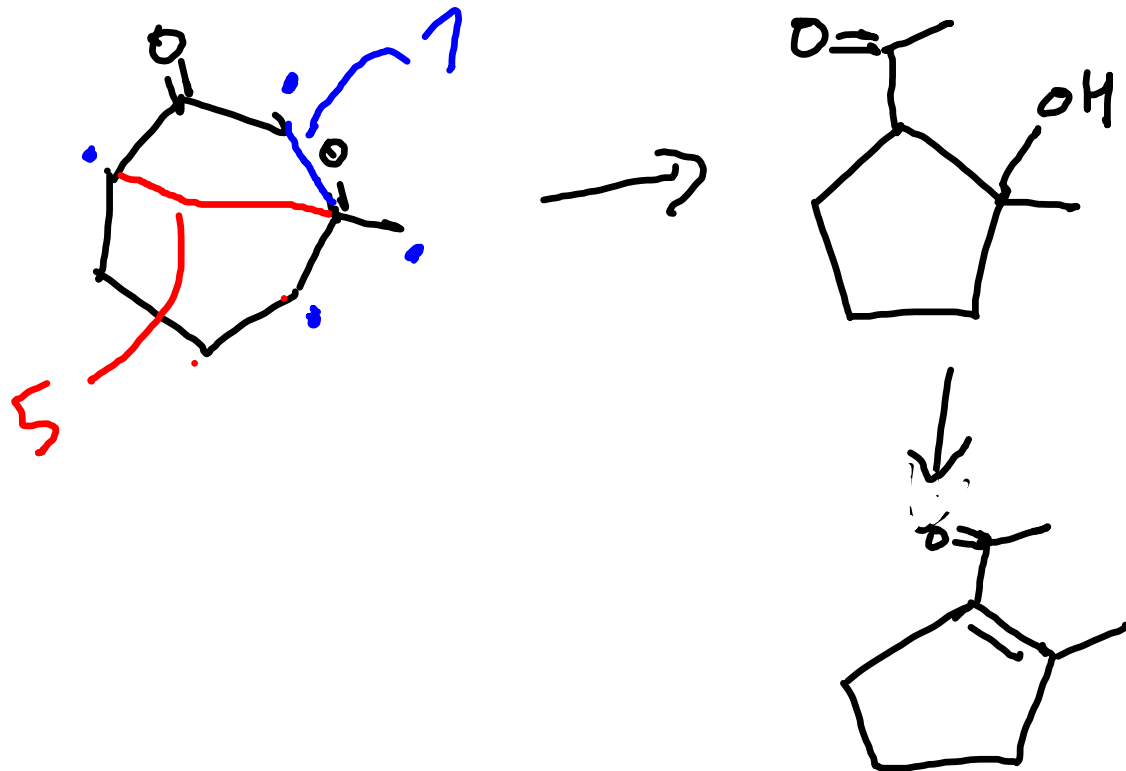
$\downarrow \text{H}_2\text{SO}_4/\Delta$



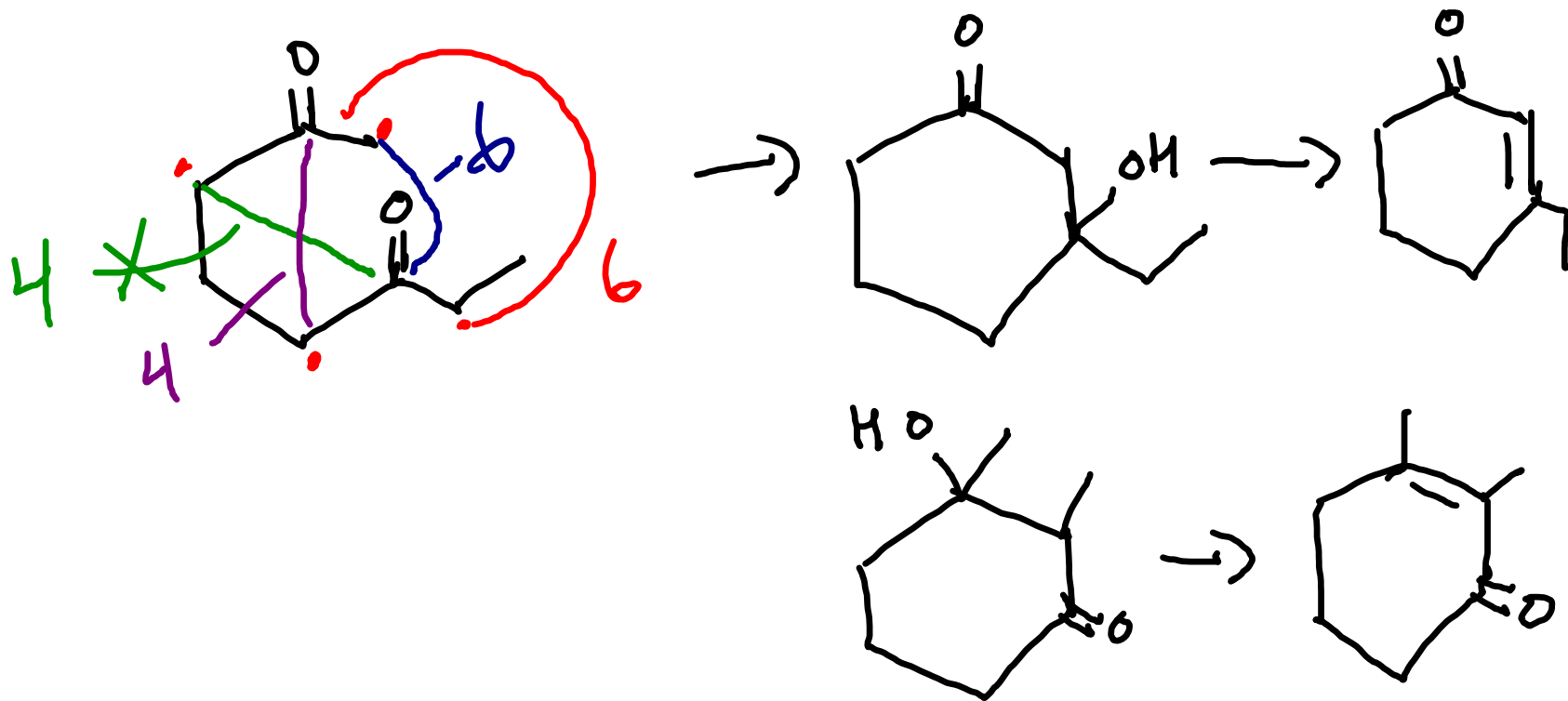
11 e) propanal + formaldehyde (xs)
 H_2SO_4, Δ



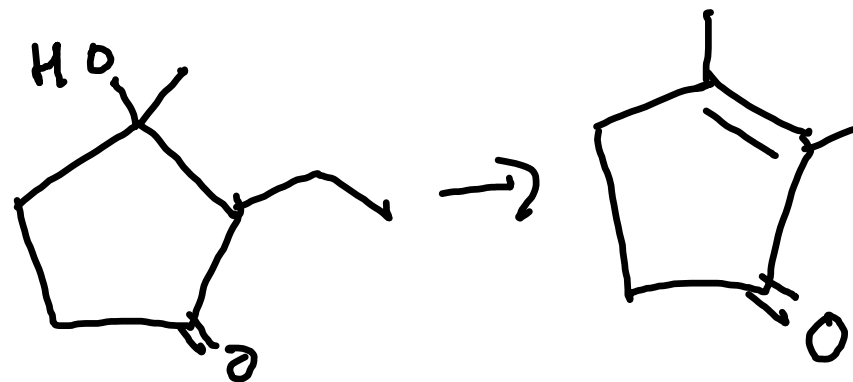
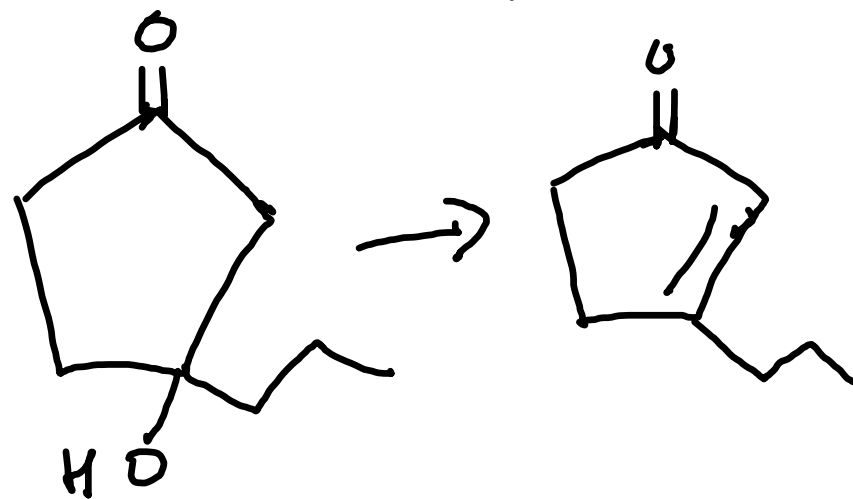
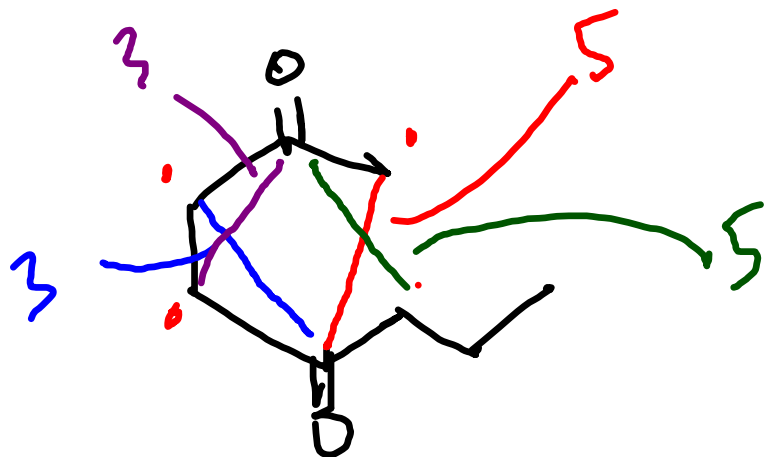
11 fl 2,7-octanedione $\xrightarrow[\Delta]{\text{NaOH}}$



11g) 2,6-octanedione $\xrightarrow[\Delta]{\text{H}_2\text{SO}_4}$



11 h) 2,5-octanedione NaOH, Δ



ii) i) 2,4-octanedione $\xrightarrow{NaOH, \Delta}$

