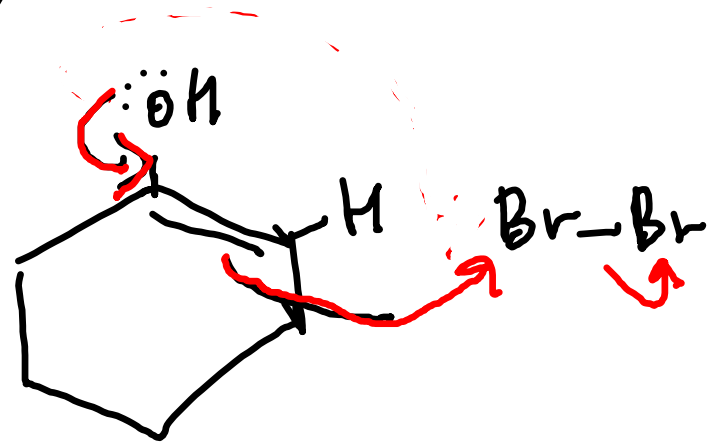
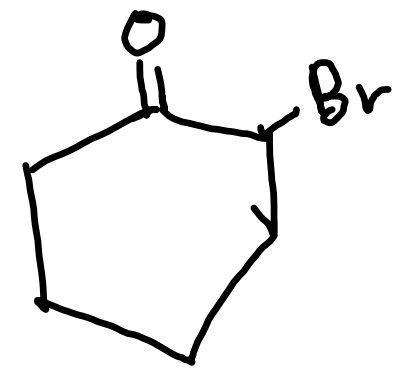
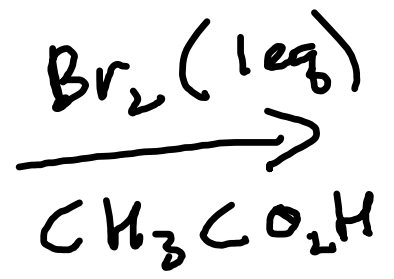
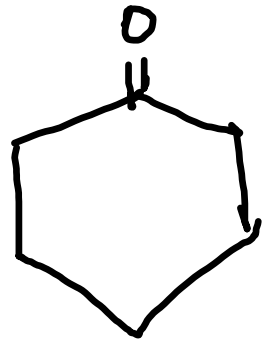
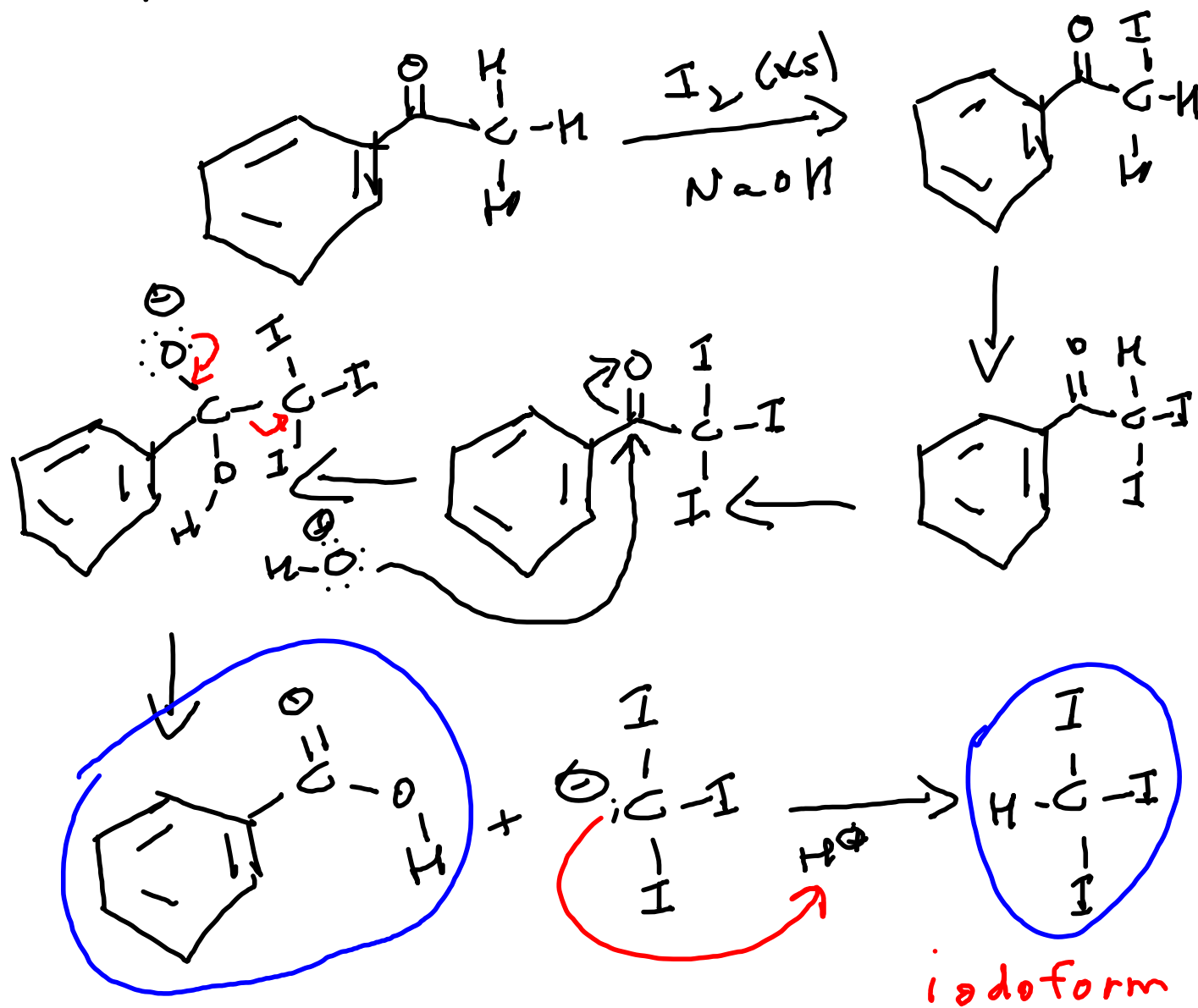


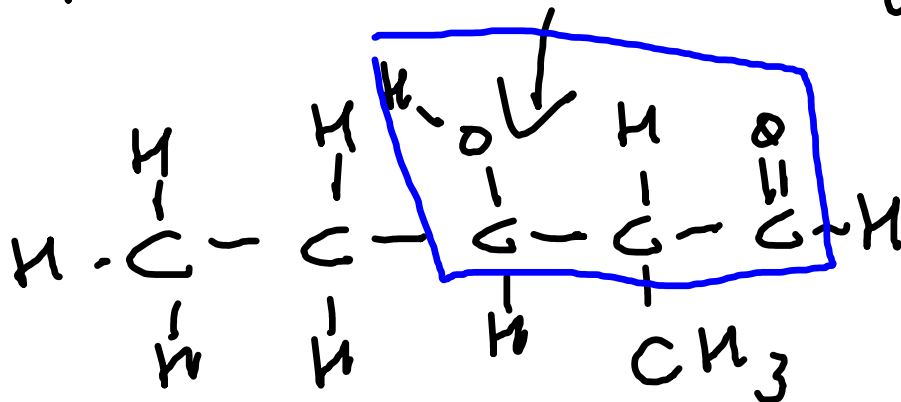
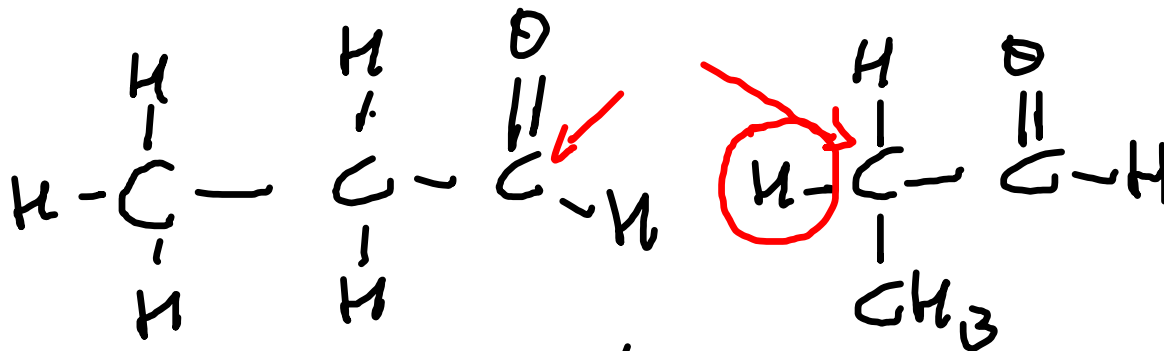
11)
a)



ii b) acetophenone

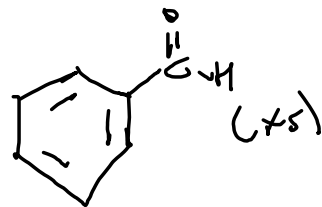
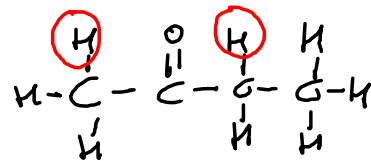


ii) c) propanal + OH^-

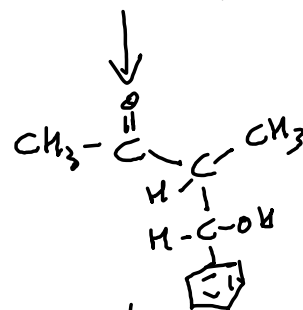
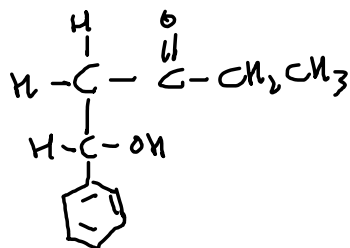
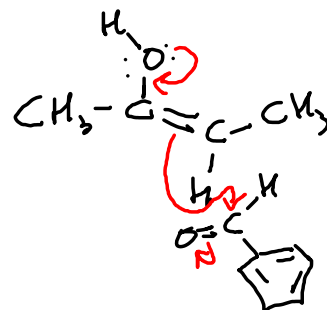
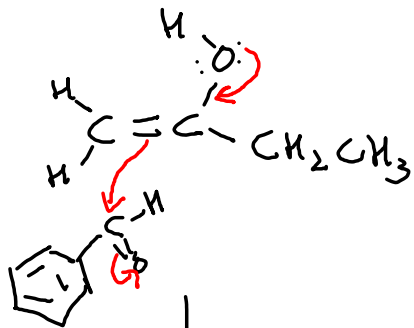


β -hydroxy aldehyde

ii d) 2-butanone + benzaldehyde

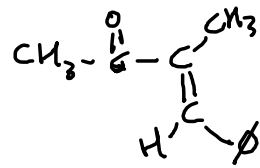
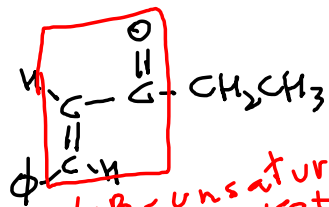


↓ H₂SO₄, heat



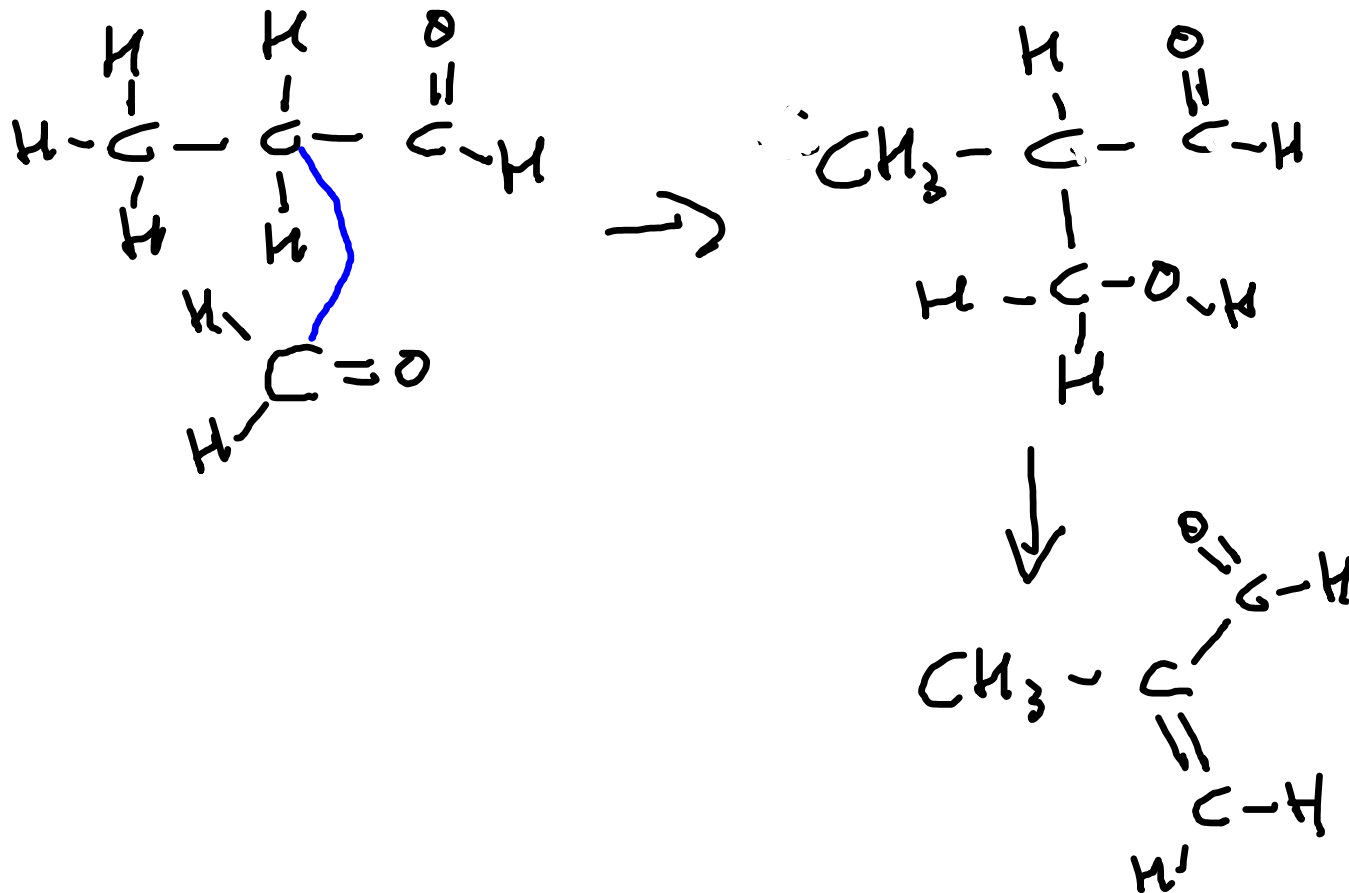
↓ H₂SO₄/Δ

↓ H₂SO₄/Δ

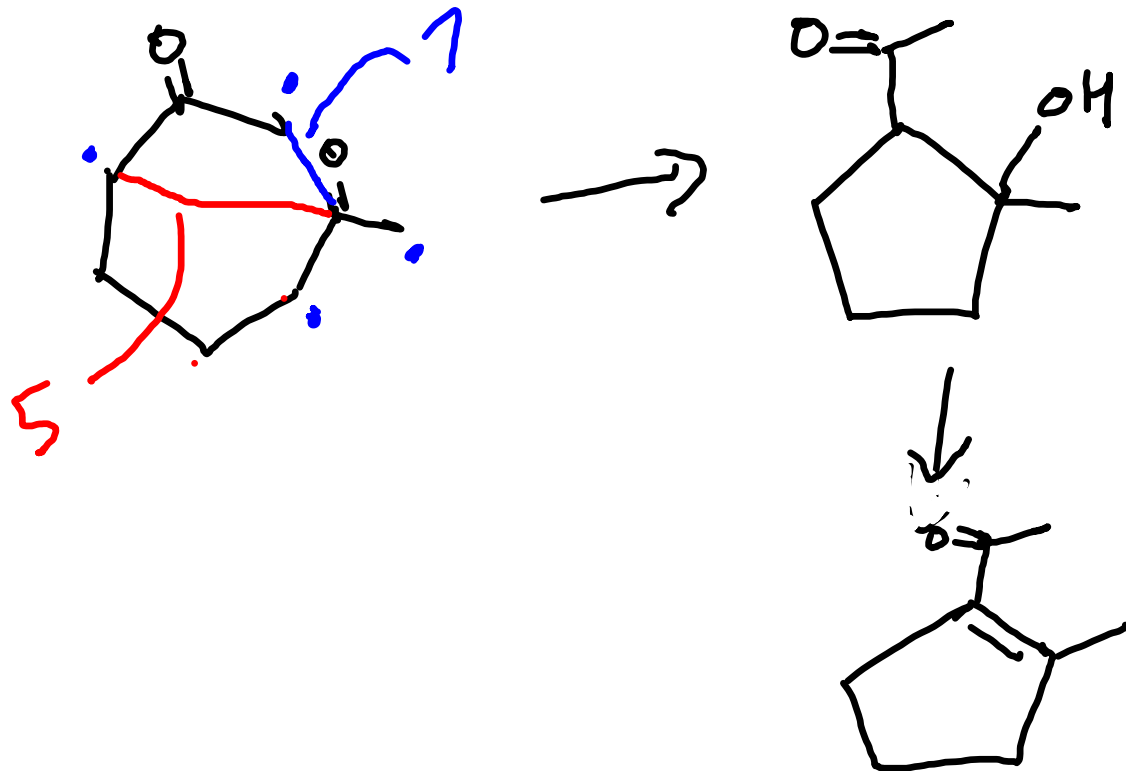


α,β-unsaturated ketone

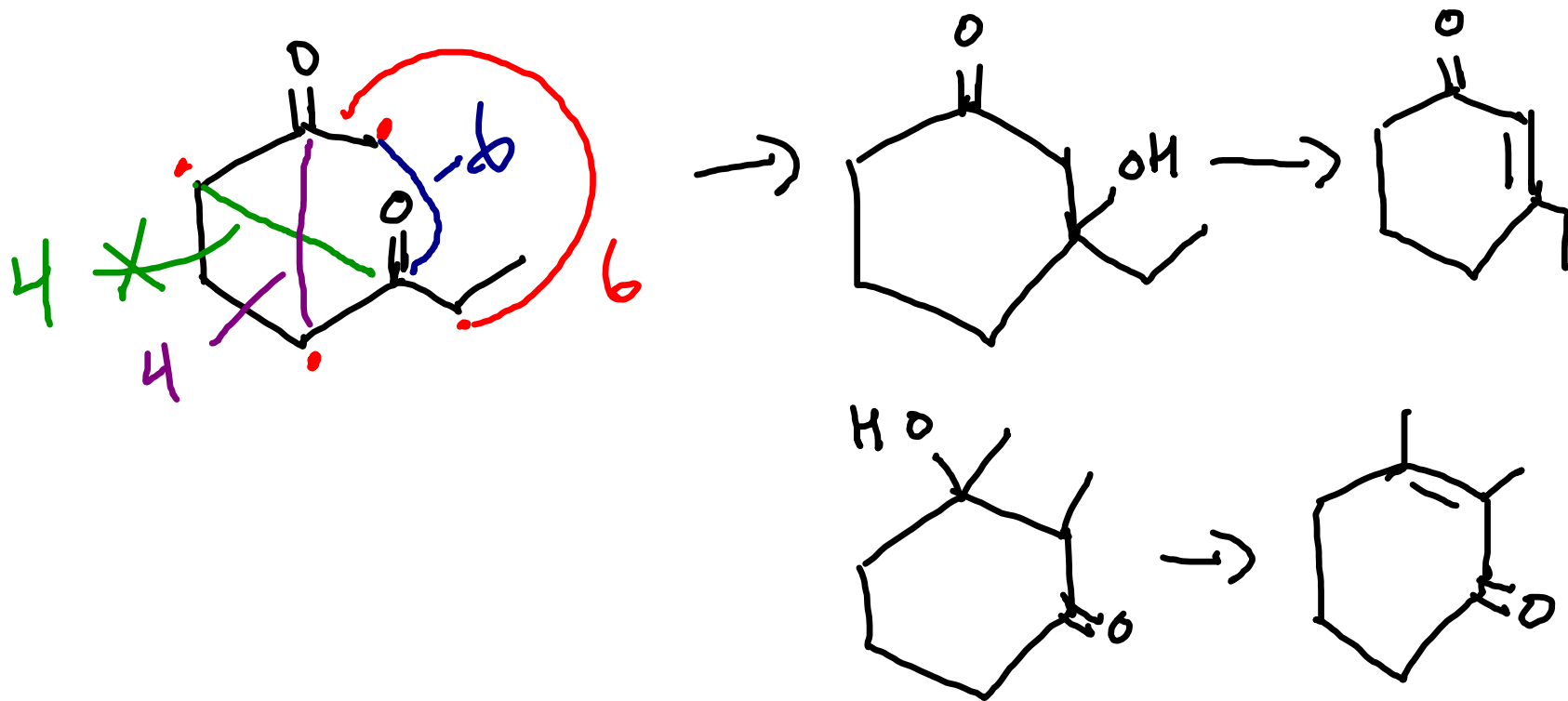
11 e) propanal + formaldehyde (xs)
 H_2SO_4, Δ



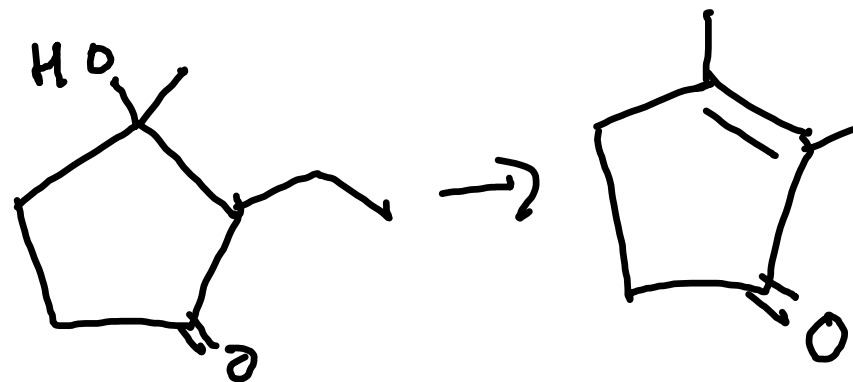
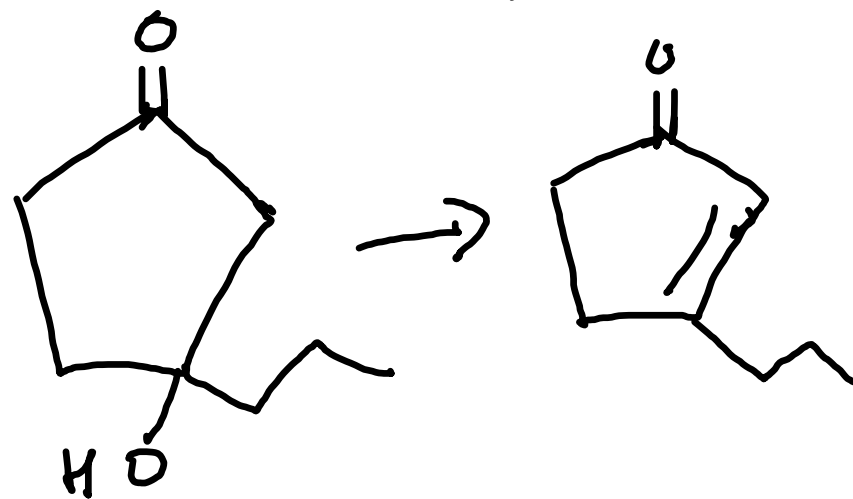
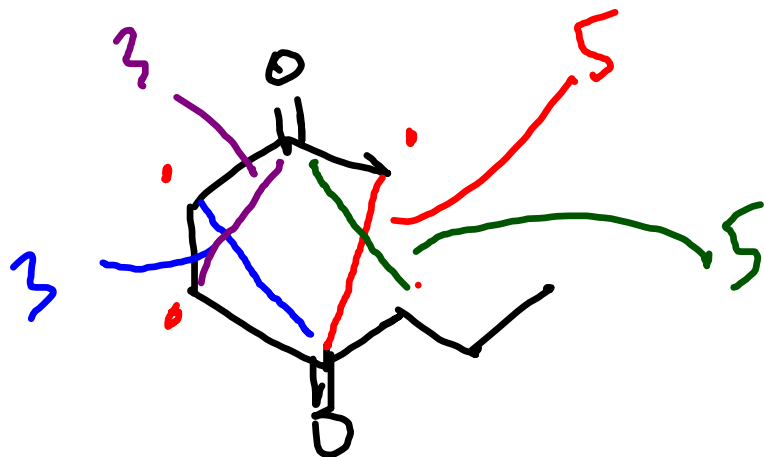
11 fl 2,7-octanedione $\xrightarrow[\Delta]{\text{NaOH}}$



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



11 h) 2,5-octanedione NaOH, Δ



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

