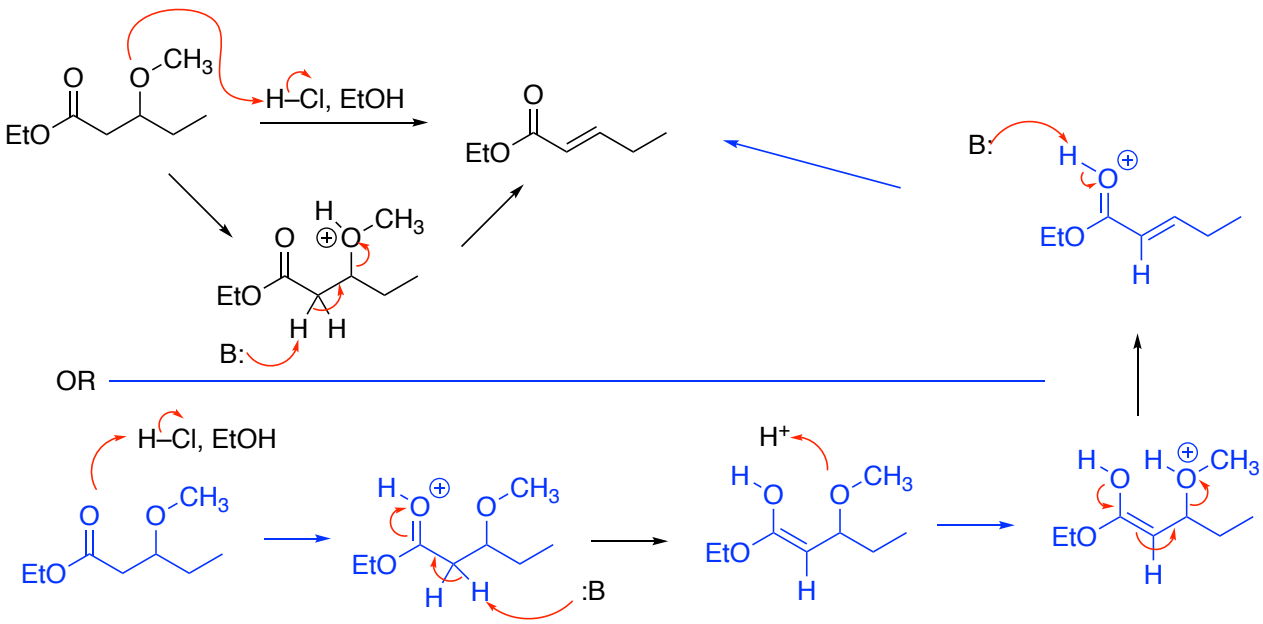
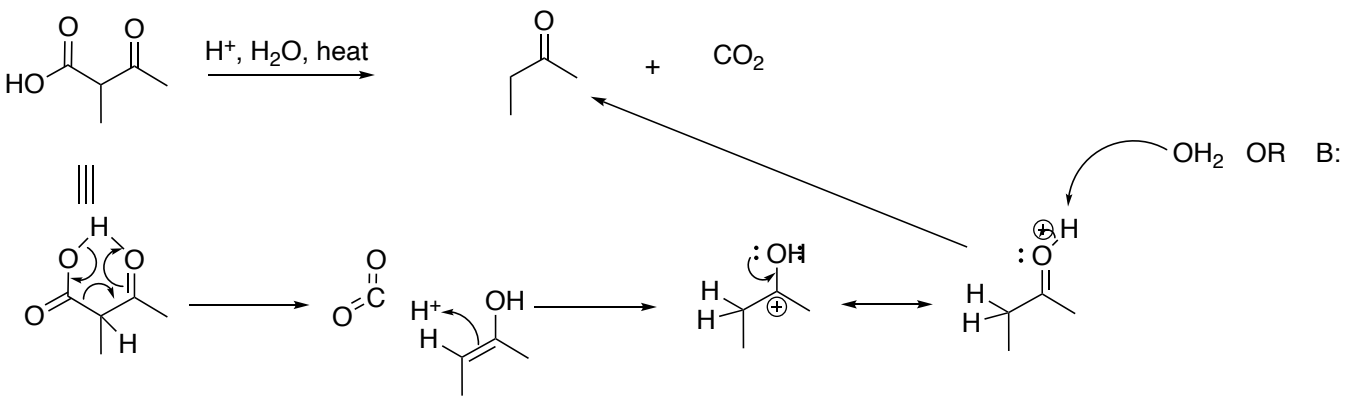
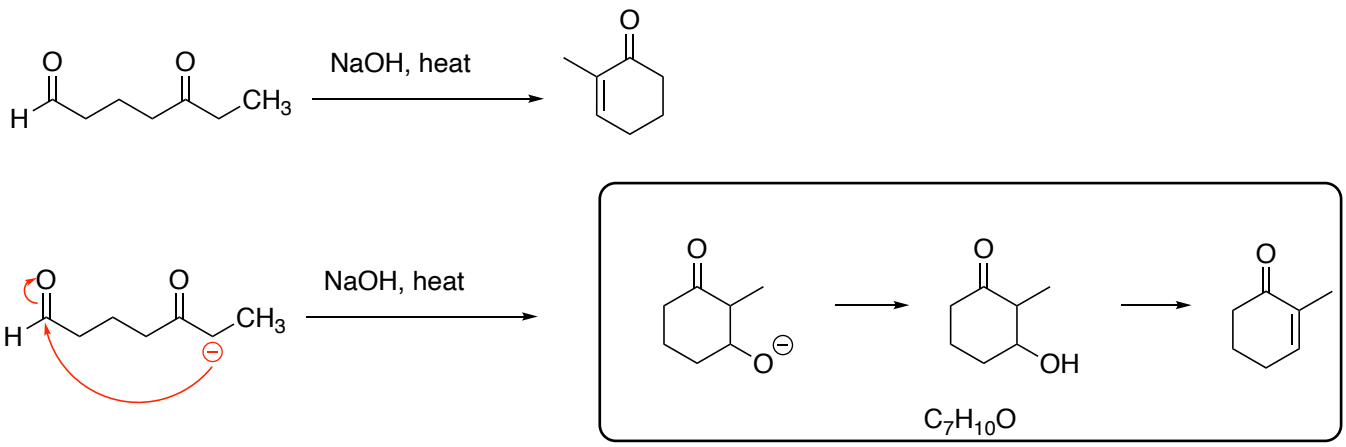
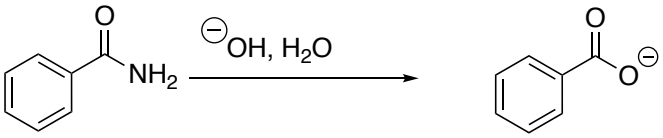
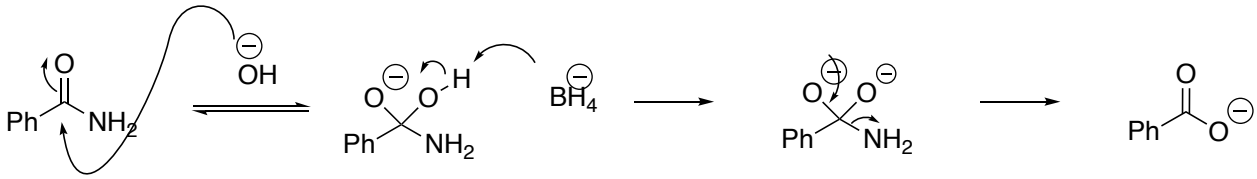
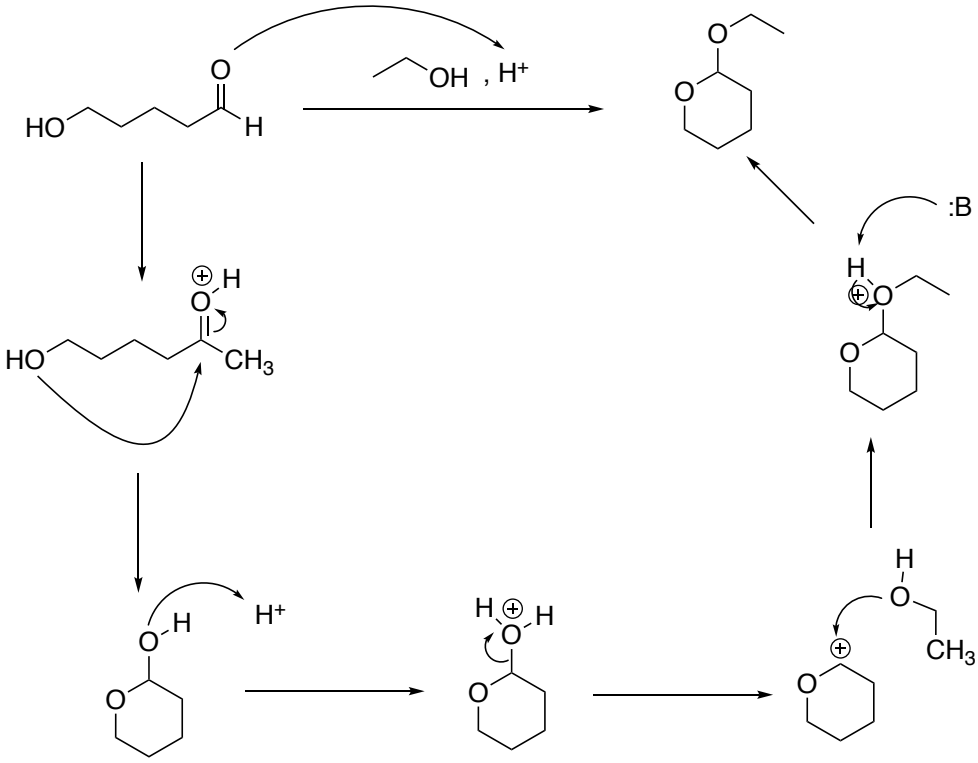

H–Cl, EtOH
EtO
CH3
B:
OR
H–Cl, EtOH
H+
:B

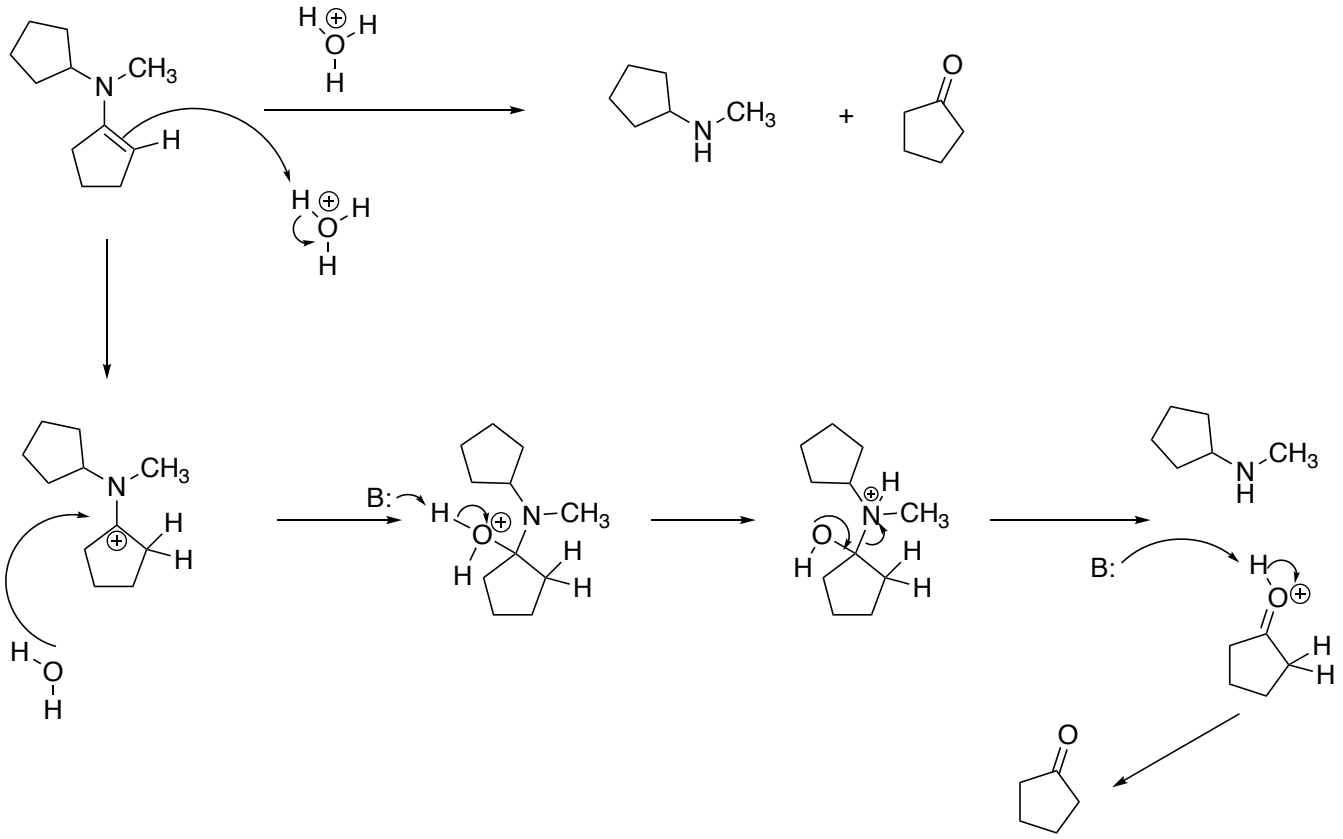

H+, H2O, heat
HO
CO2
+
OH2 OR B:
H+
OH

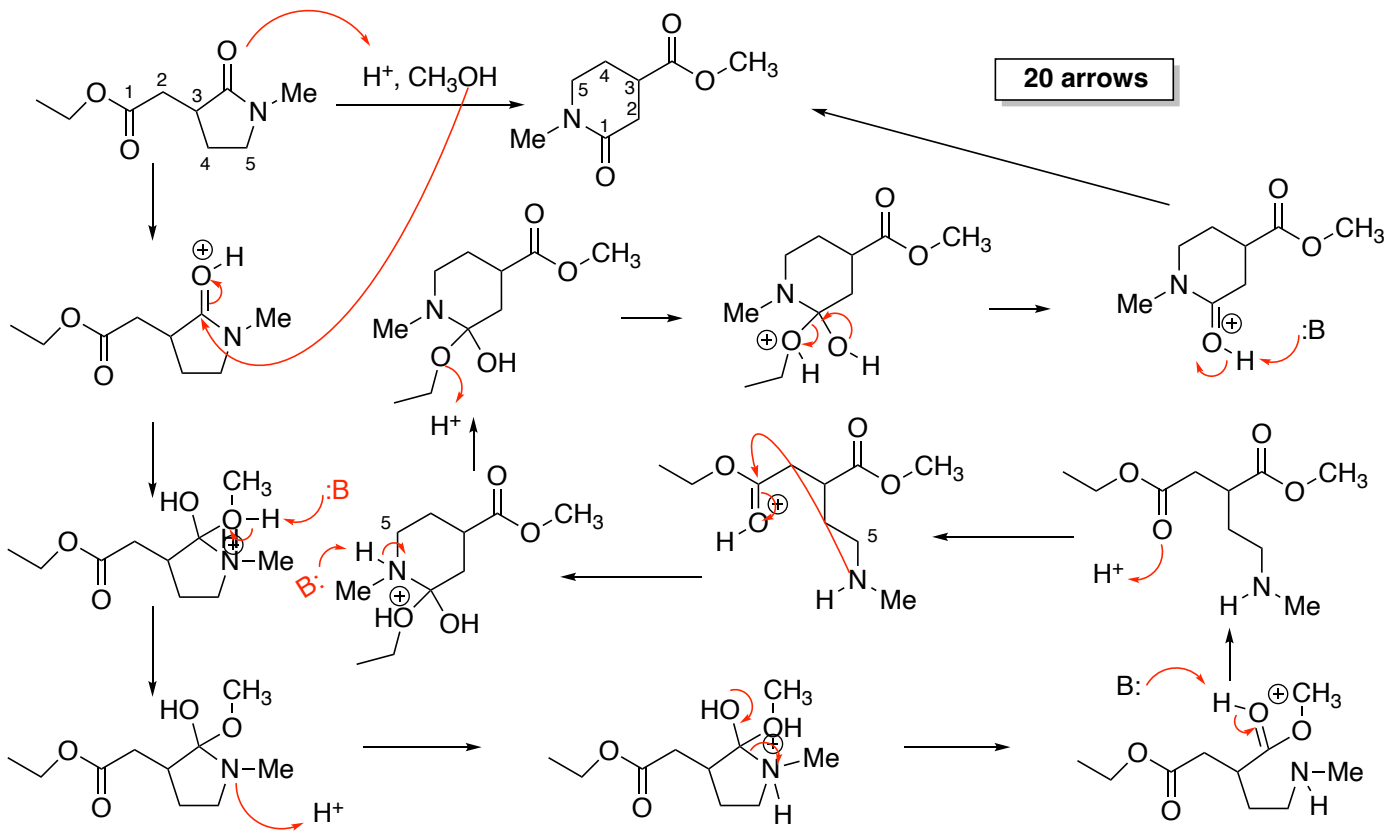

NaOH, heat
CH3
NaOH, heat
OH
C7H10O

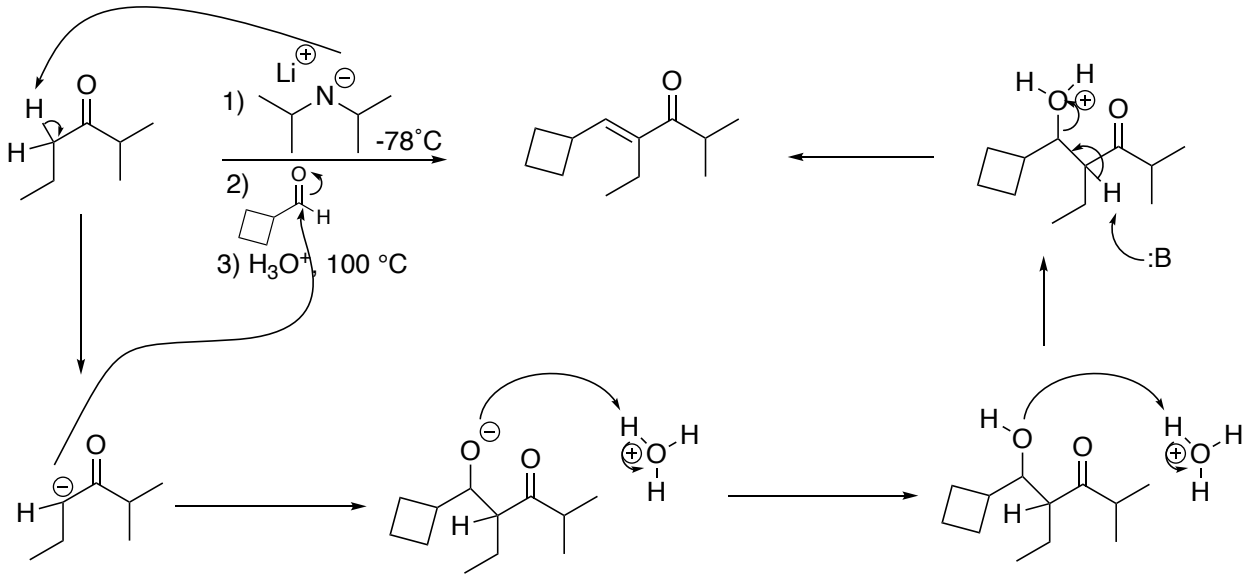

O
NH2
OH, H2O
O
O


O
Ph
NH2
OH
O
O
H
Ph
NH2
BH4
O
O
Ph
NH2
O
Ph
O


O
HO
H
OH
, H+
O
O
:B
H
O
O
H
O
HO
CH3
H
O
H+
O
H
O
H
O
H
O
CH3
O


B:
B:


H+, CH3OH
20 arrows
:B
B:
H+


1)
2)
3) H_3O^+, 100 °C
-78˚C
:B