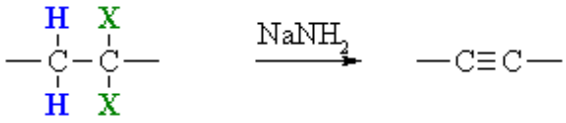
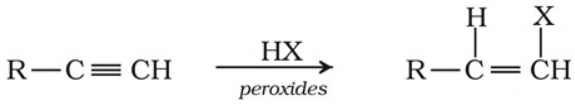
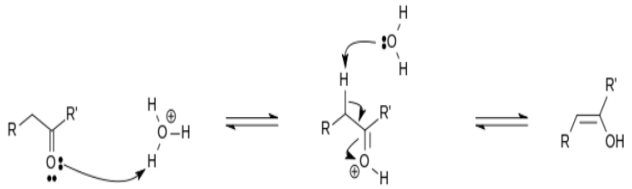
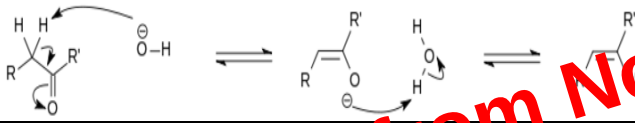
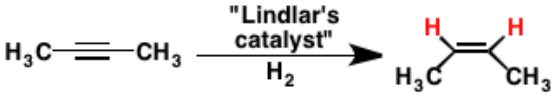
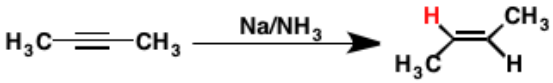
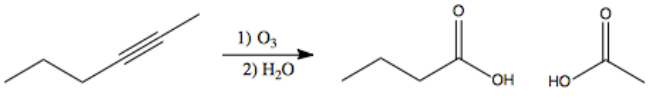
Alkynes

Reaction	Reagent(s)
Elimination 	excess $NaNH_2$, NH_3, heat (Δ)
Anti-Markovnikov Halogenation 	HBr, H_2O_2
Tautomerization (acidic) 	$HgSO_4$, H_2O, H_2SO_4
Tautomerization (basic) 	BH_3 (9-BBN), $NaOH$, H_2O_2
Reduction of alkyne 	H_2, Pd/C or Pt, high pressure
Hydrogenation (cis) 	H_2, Lindlar's catalyst
Hydrogenation (trans) 	Na(s), NH_3
Ozonolysis 	O_3, H_2O