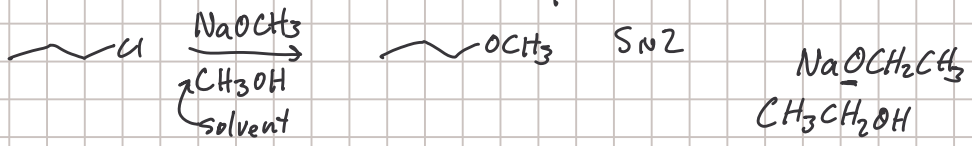
Ch 6

Note Title 11/15/2005

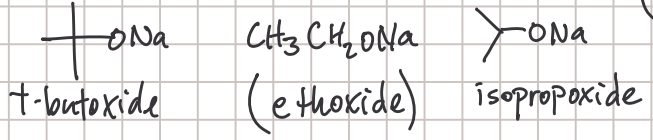
S_N1 S_N2 E1 E2

★ 1° R-X usually S_N2 (if strong nuc. present)



★ strong nucleophile/base = 2nd order (S_N2 / E2)

★ bulky bases favor elimination over substitution (E2 vs S_N2)



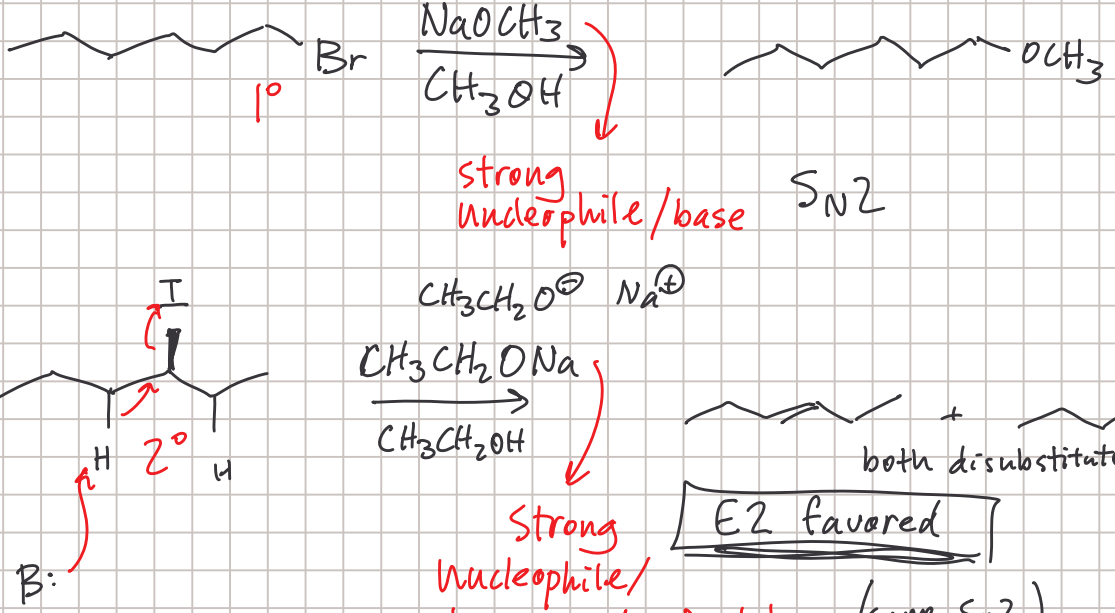
★ polarizable weak bases favor S_N2 over E2

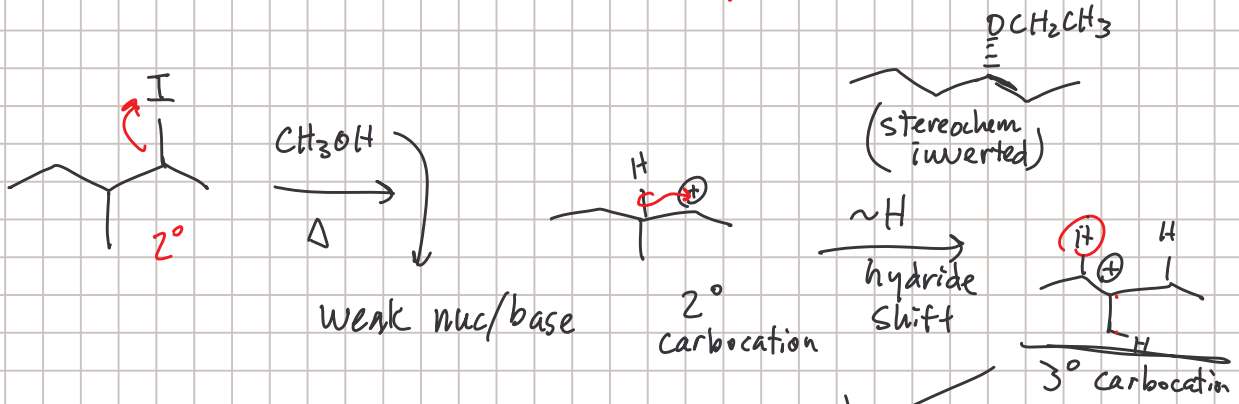
Cl^-, Br^-, I^-

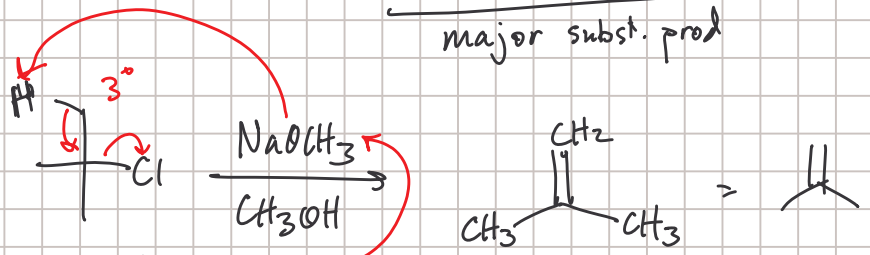
★ S_N1 + E1 often react together

(no strong nuc/base present)

(usu Δ or $AgNO_3$ required for ionization)

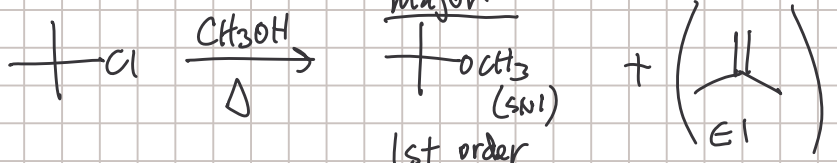


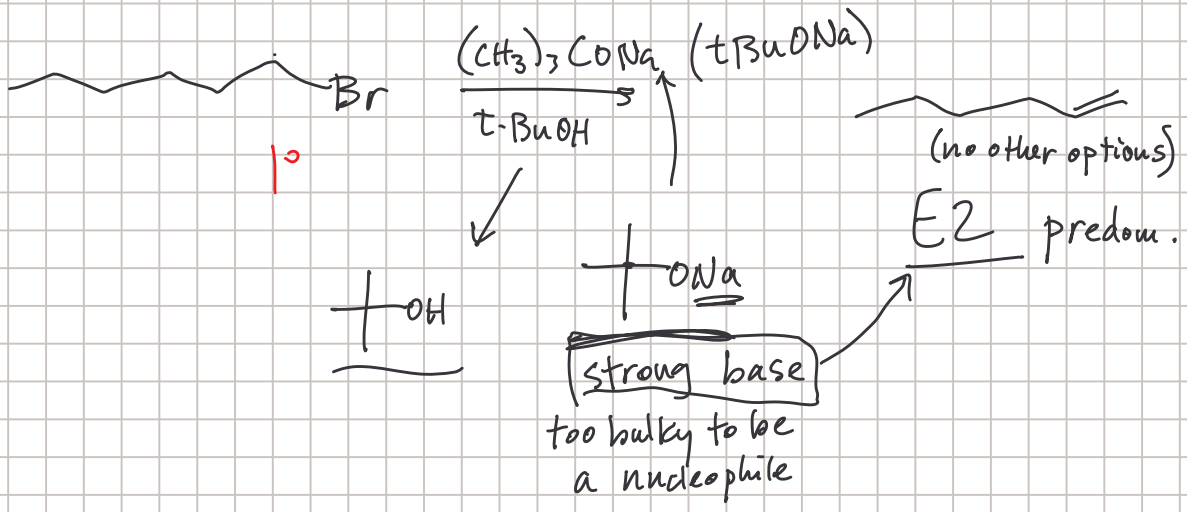




Strong = 2nd order elimination only! E2

(too hindered for SN2)




Br
1°
$(CH_3)_3CONa$ ($tBuONa$)
t-BuOH
OH
ONa
strong base
too bulky to be a nucleophile
(no other options)
E2 predom.