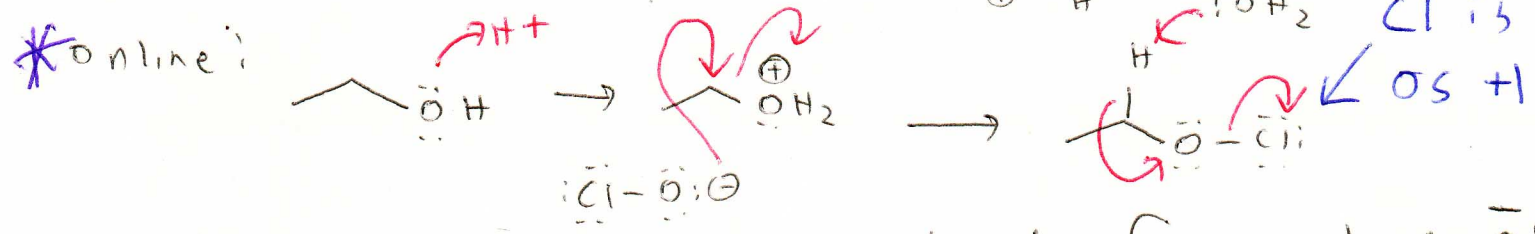
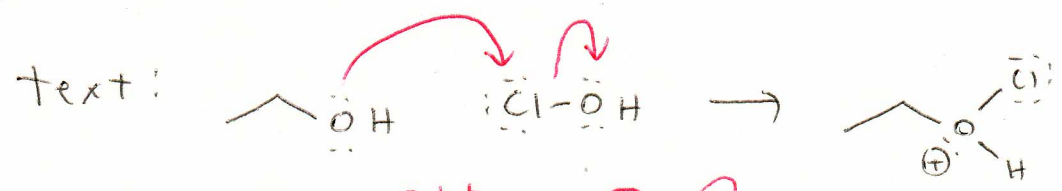


Lab 1 - Bleach oxidation

OCl^- hypochlorite



In this reaction, chlorine is reduced from +1 to -1 and carbon is oxidized from 0 to +2 (for cyclohexanol)

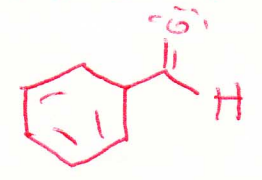
- washes:
- NaHSO_3 (sodium bisulfite) reduces excess bleach
 - NaHCO_3 - neutralizes excess acid
 - NaCl - forces out ionic impurities

IR interpretation

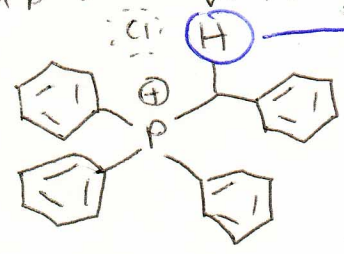
Lab 2 - Reduction

NaBH_4 vs LiAlH_4
 ↑
 "tolerates" protic solvents

benzaldehyde



Lab 3 - Wittig



more acidic than normal due to delocalization of resulting anion

No IR (lab 3 or 4) on quiz

wash NaHSO_3 - reduce $\text{O}_3\text{P}=\text{O}$

