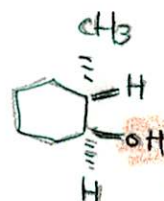
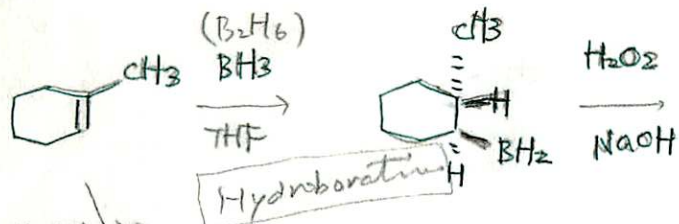
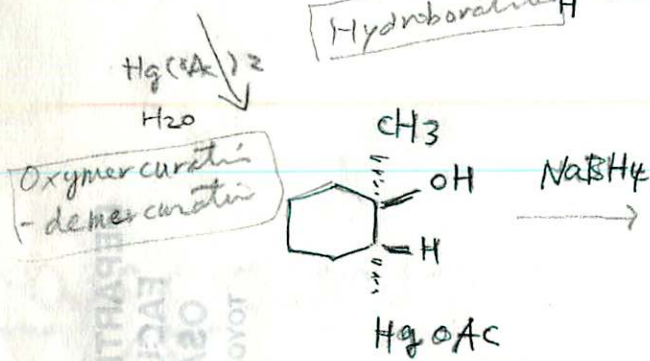


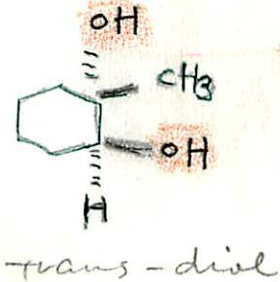
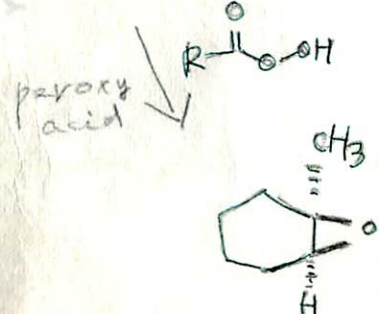
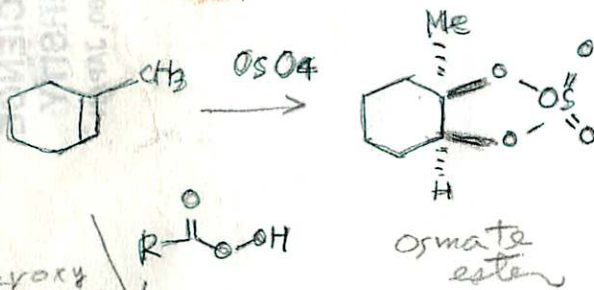
活性化剤なしで
 特別な工夫が必要



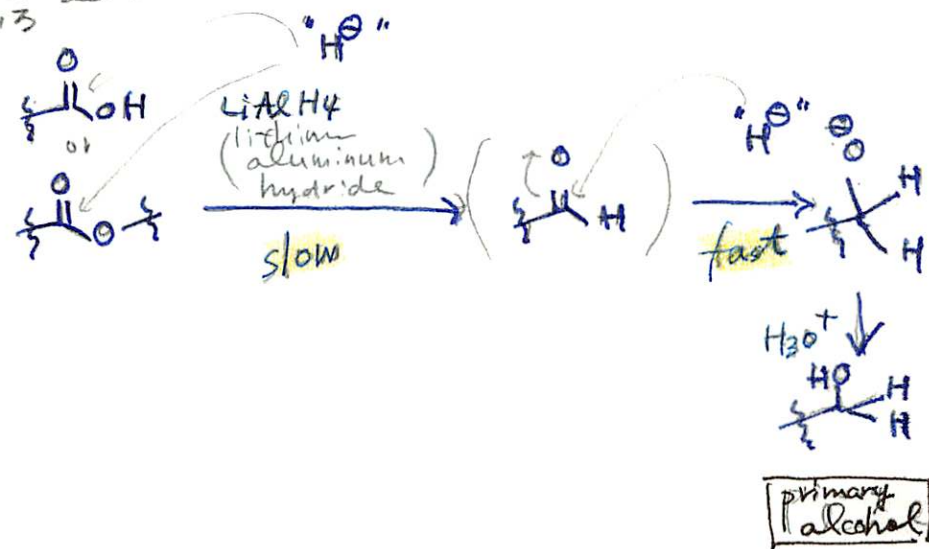
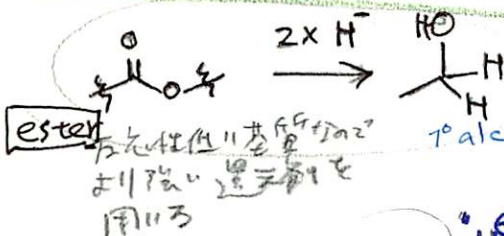
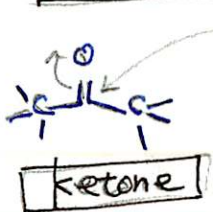
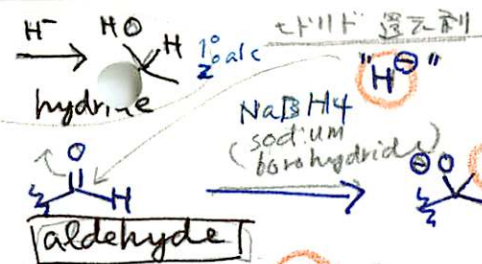
anti-Markovnikov
 生成物



2012.12.19



p596 合成法
 エポキシドの形成



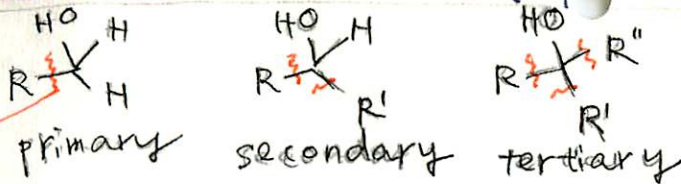
p597 ⑨

57 p22
 = 1st review
 1st alc 合成
 2nd alc 合成
 alcohol 合成

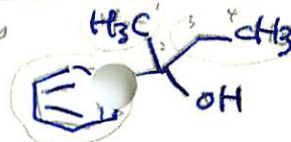
炭素陰イオン carbanion (C⁻ M⁺) の合成

p601

前回のHO
とHの間に
C-C
結合形成
合成の要

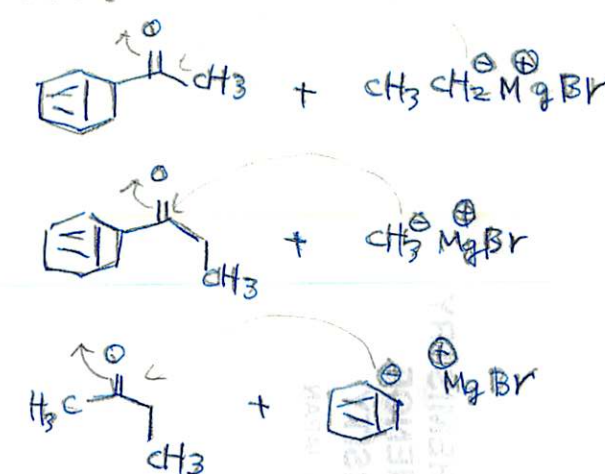


合成
p604
1312



2-phenyl-2-butanol (10)

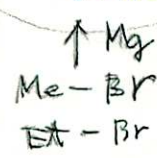
From ketones ...
three ways



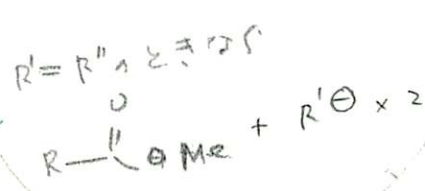
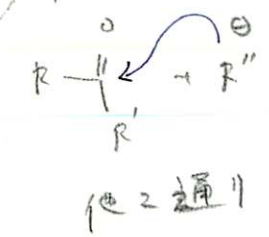
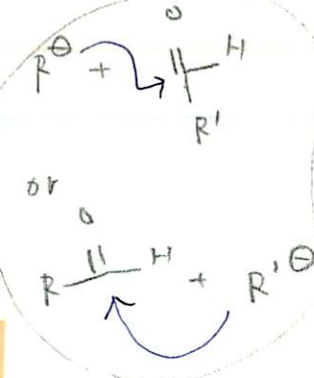
反応性、コスト、安全性
入札の容易さ...

1912 Nobel prize in chemistry
first organic chemist

R-MgBr
Grignard
試薬

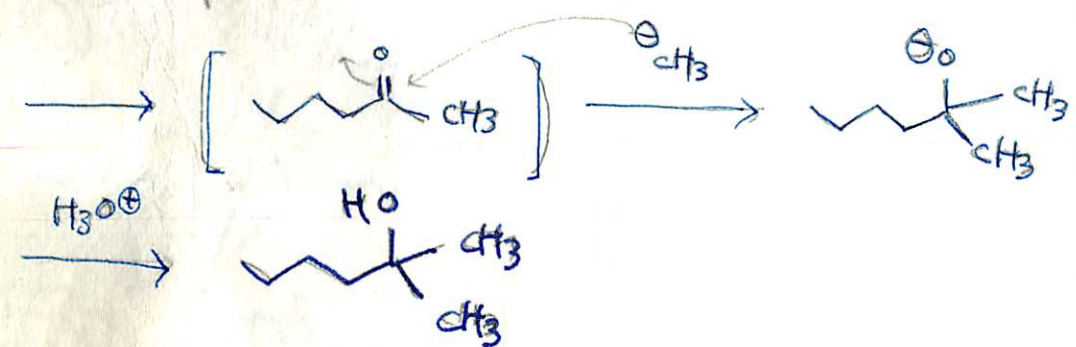
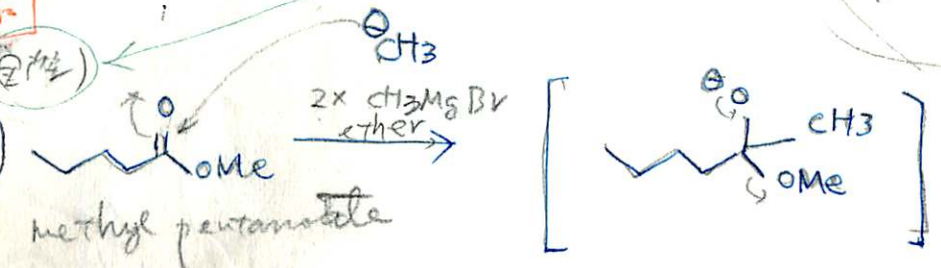


2019
5.11



例1

1311



⇒ 9 枚目 左
hydroboration
oxymercuration
OsO4
peracid
10/23
2227

