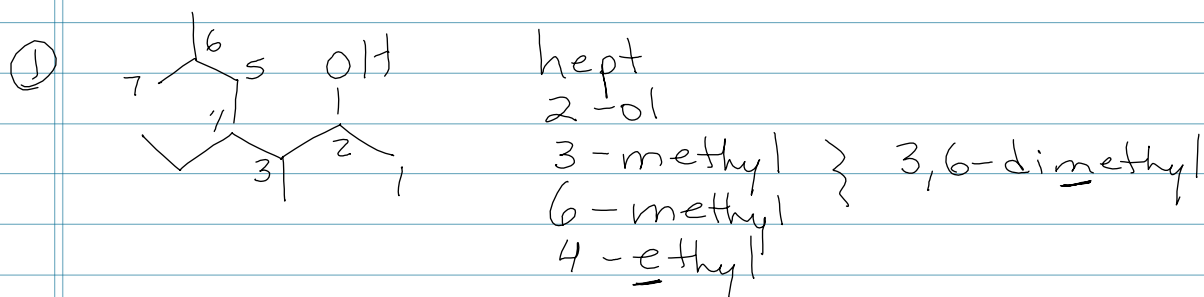
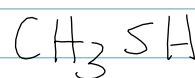
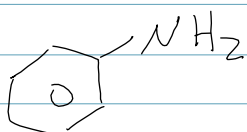
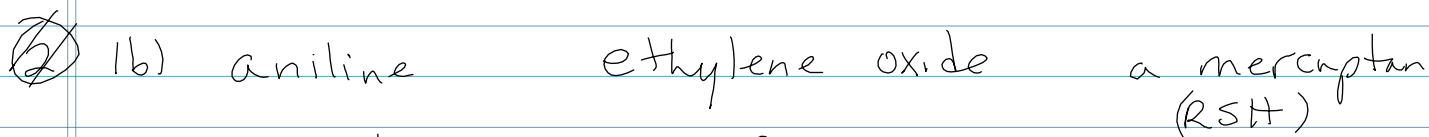


# Chem 52 X13 Exam 1 Key

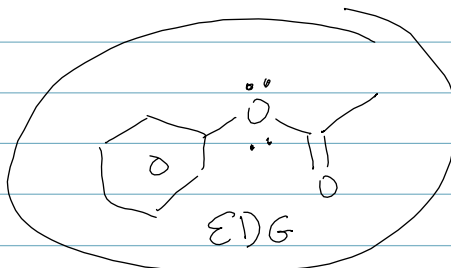
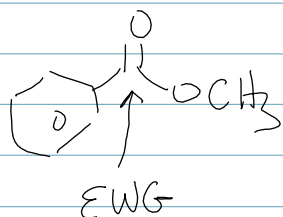
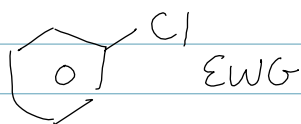
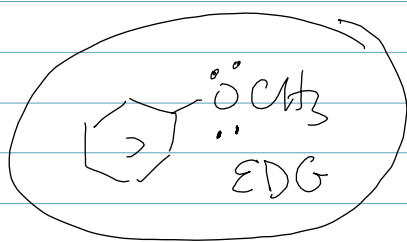
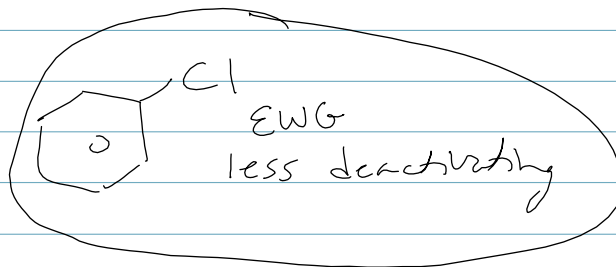
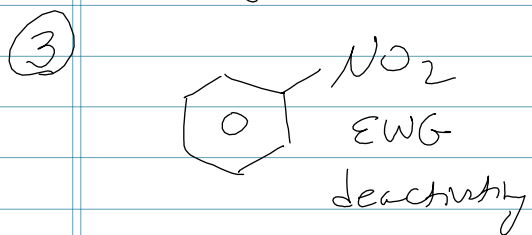


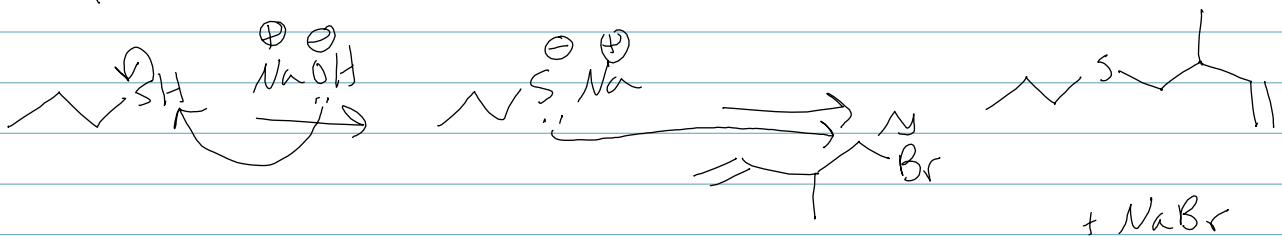
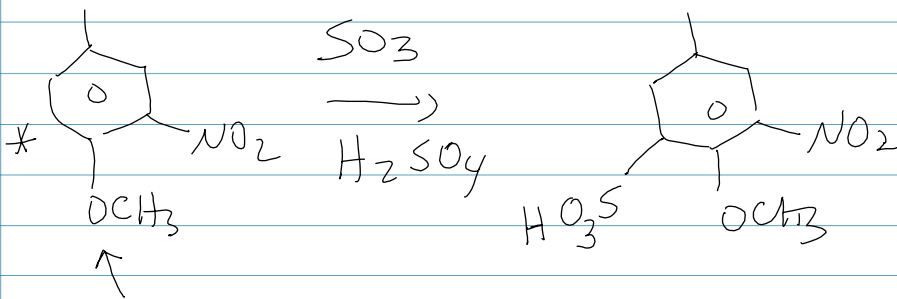
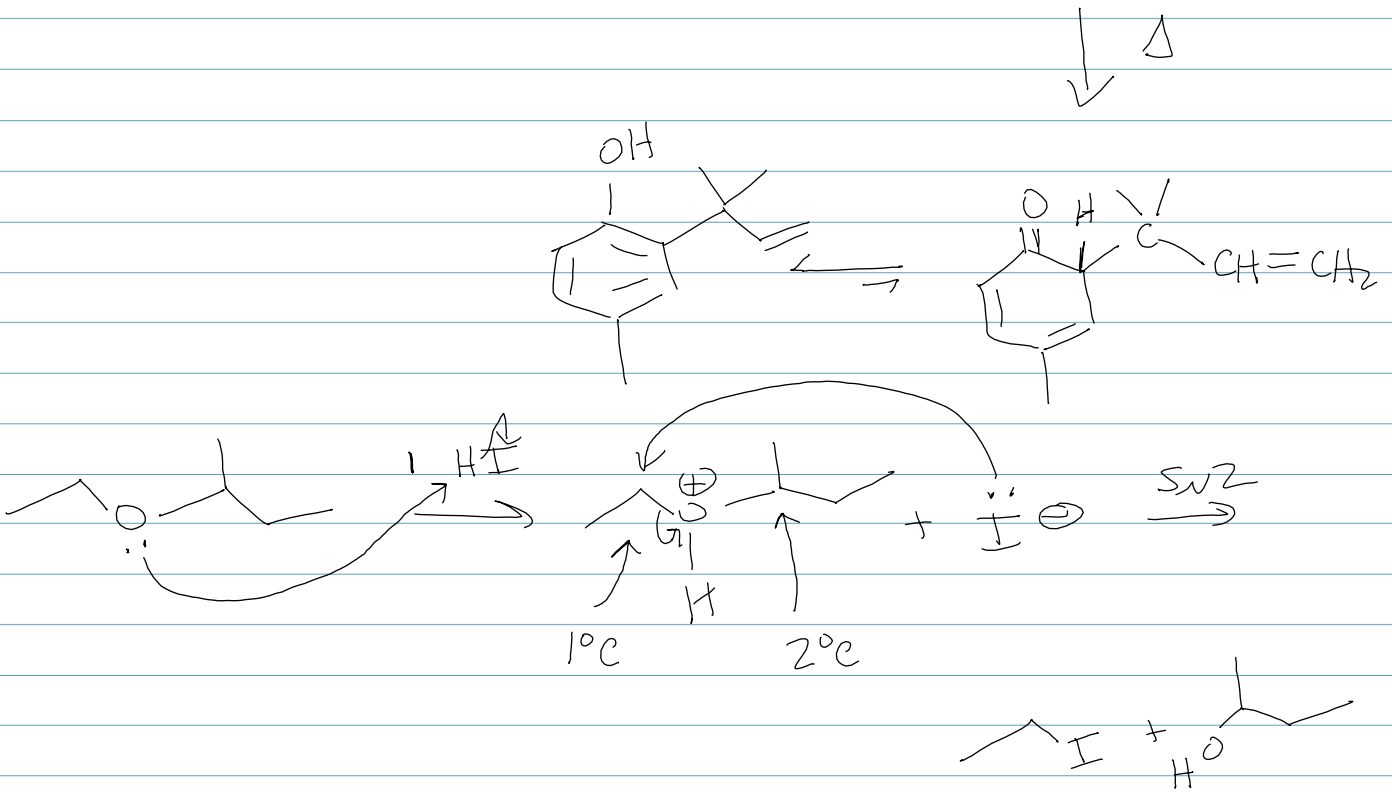
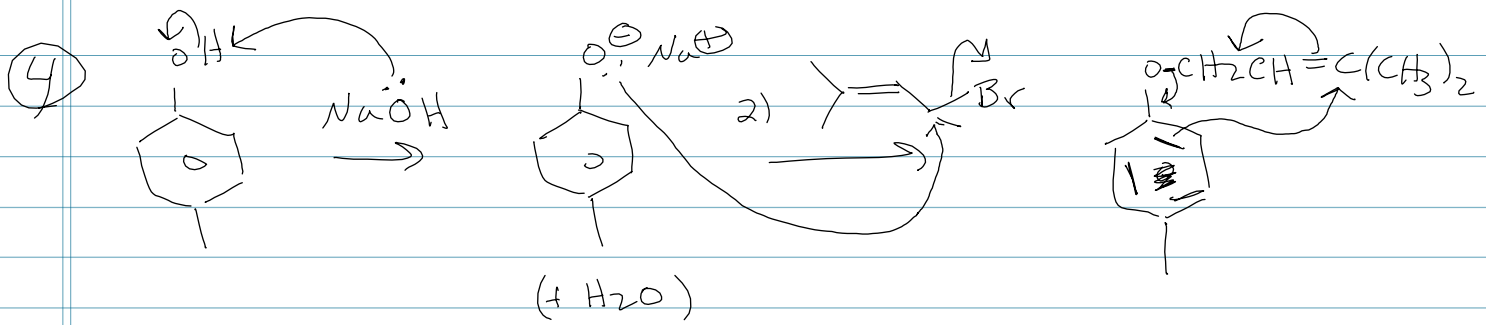
4-ethyl-3,6-dimethyl-2-heptanol

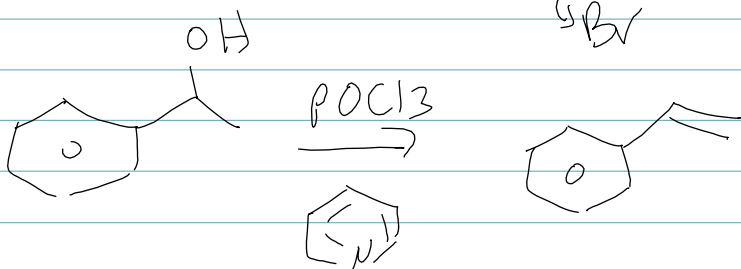
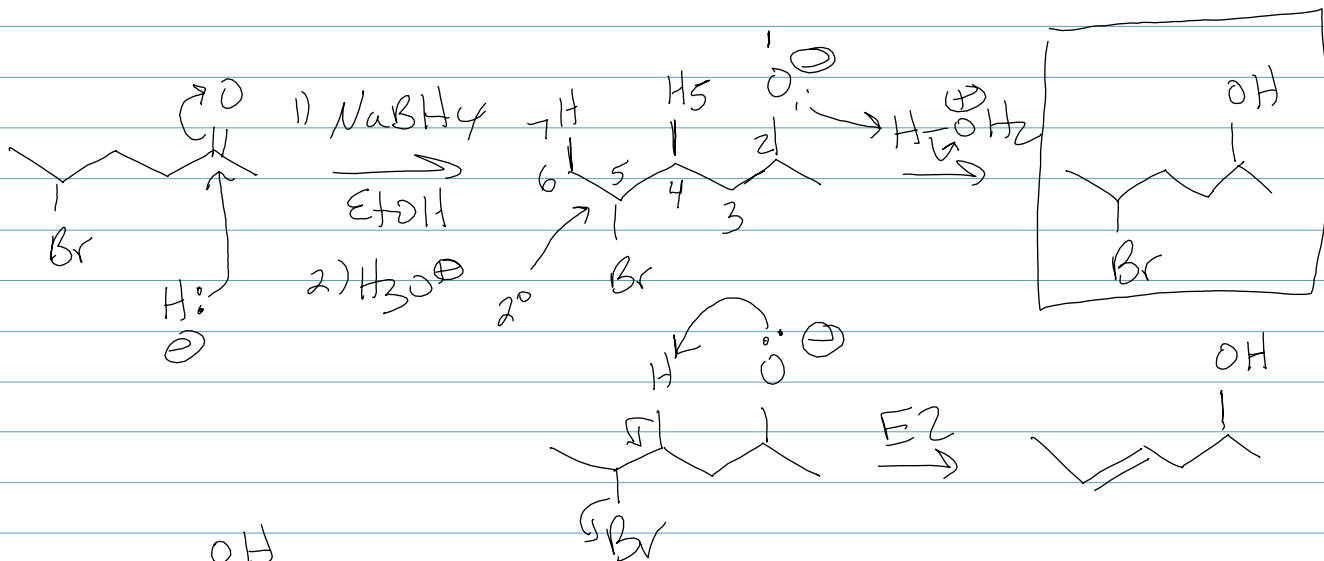
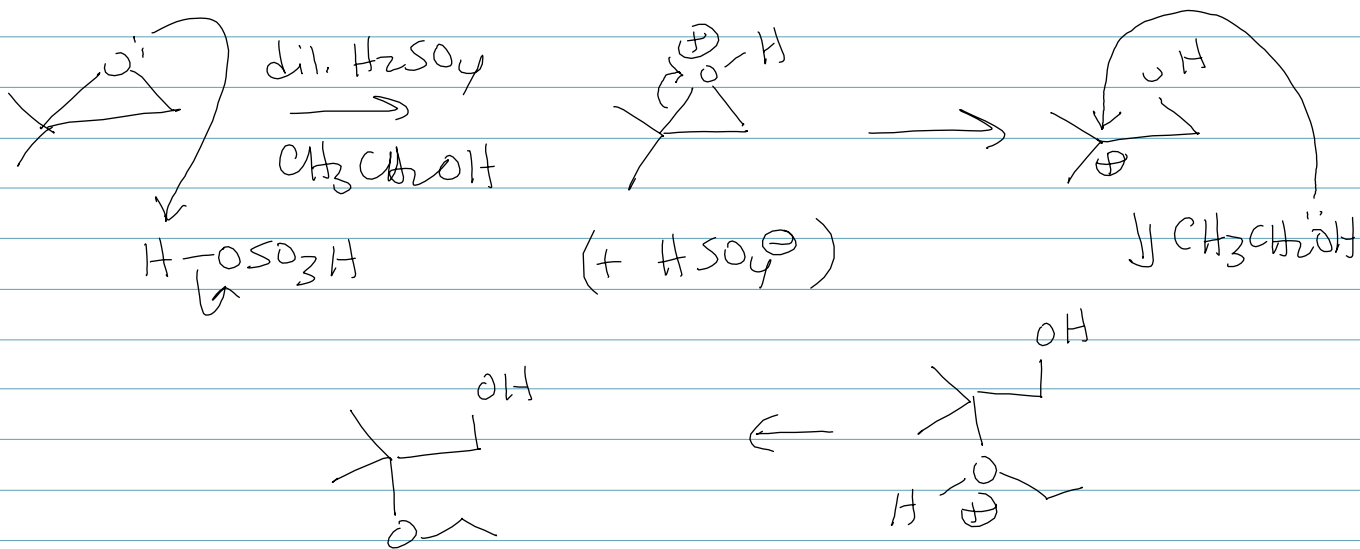
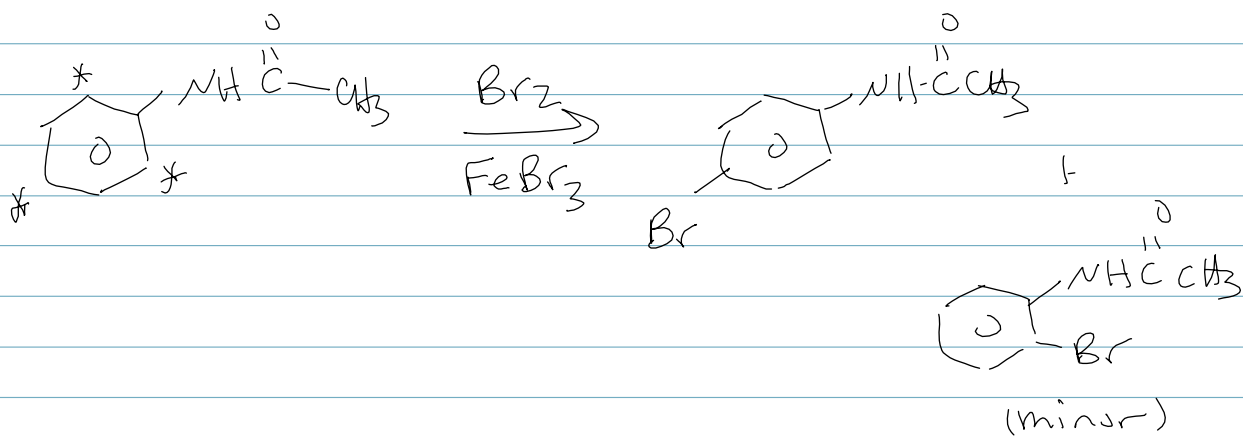
4-ethyl-3,6-dimethylheptan-2-ol

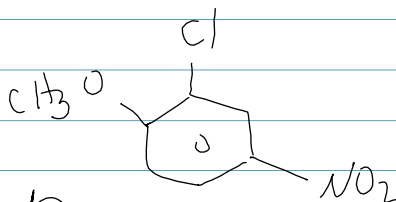
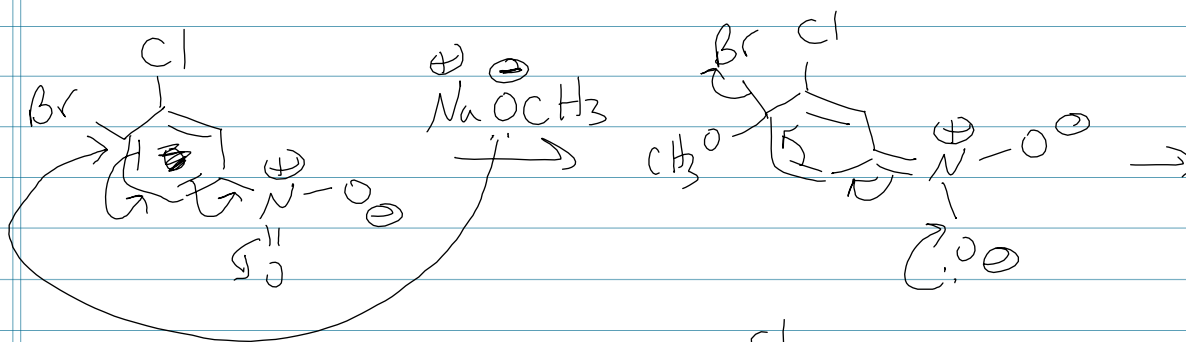
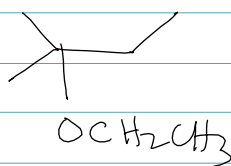
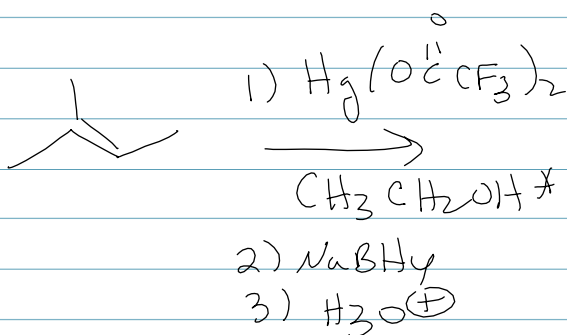
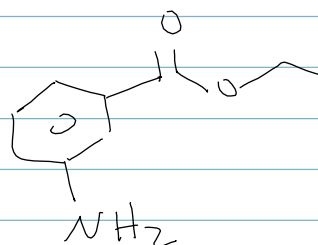
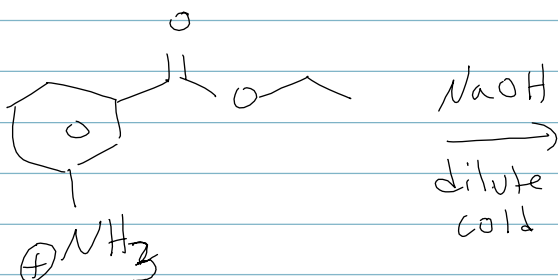
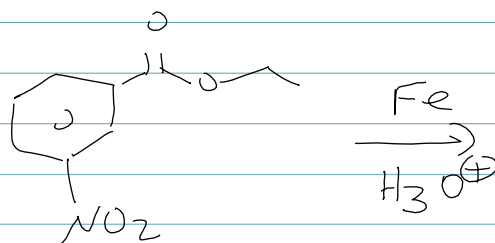
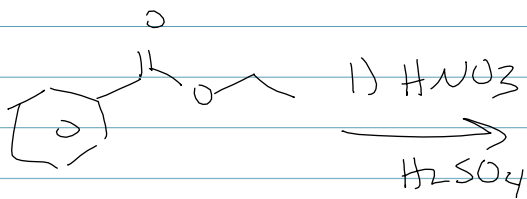


② Sigmatropic

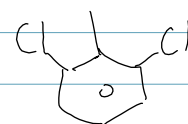
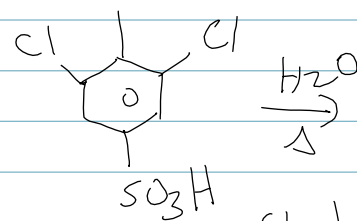
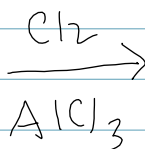
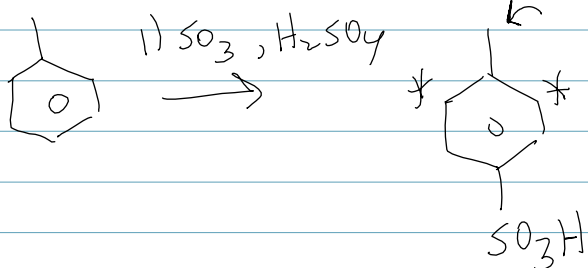


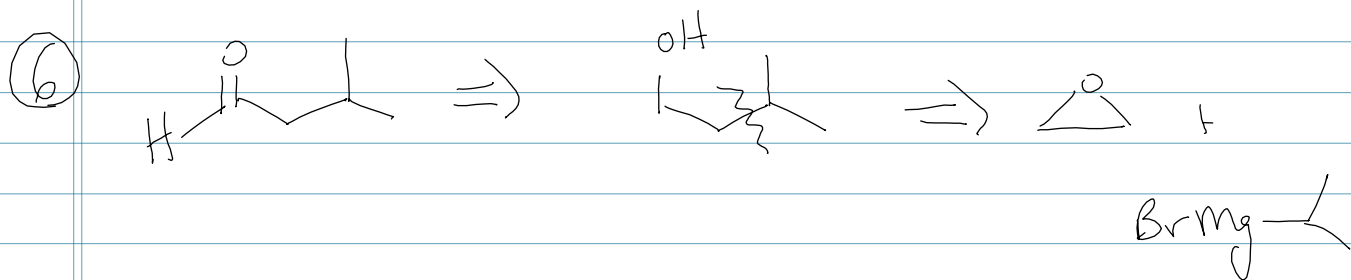




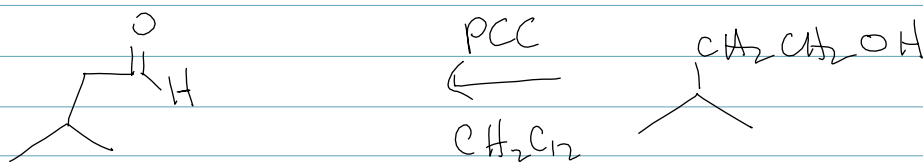
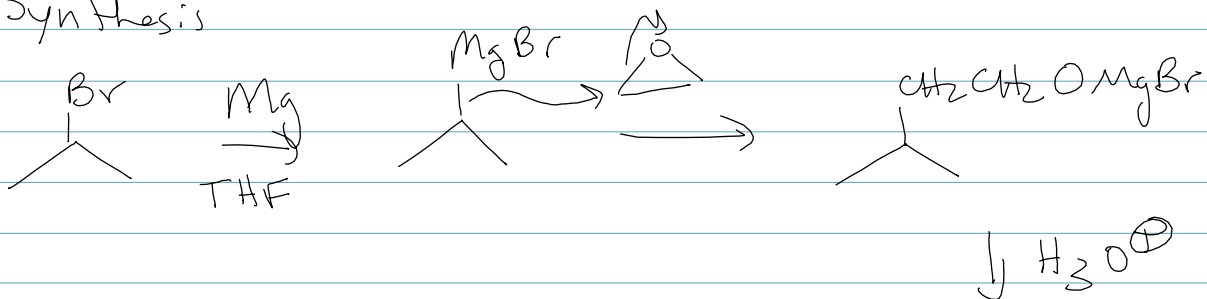


5

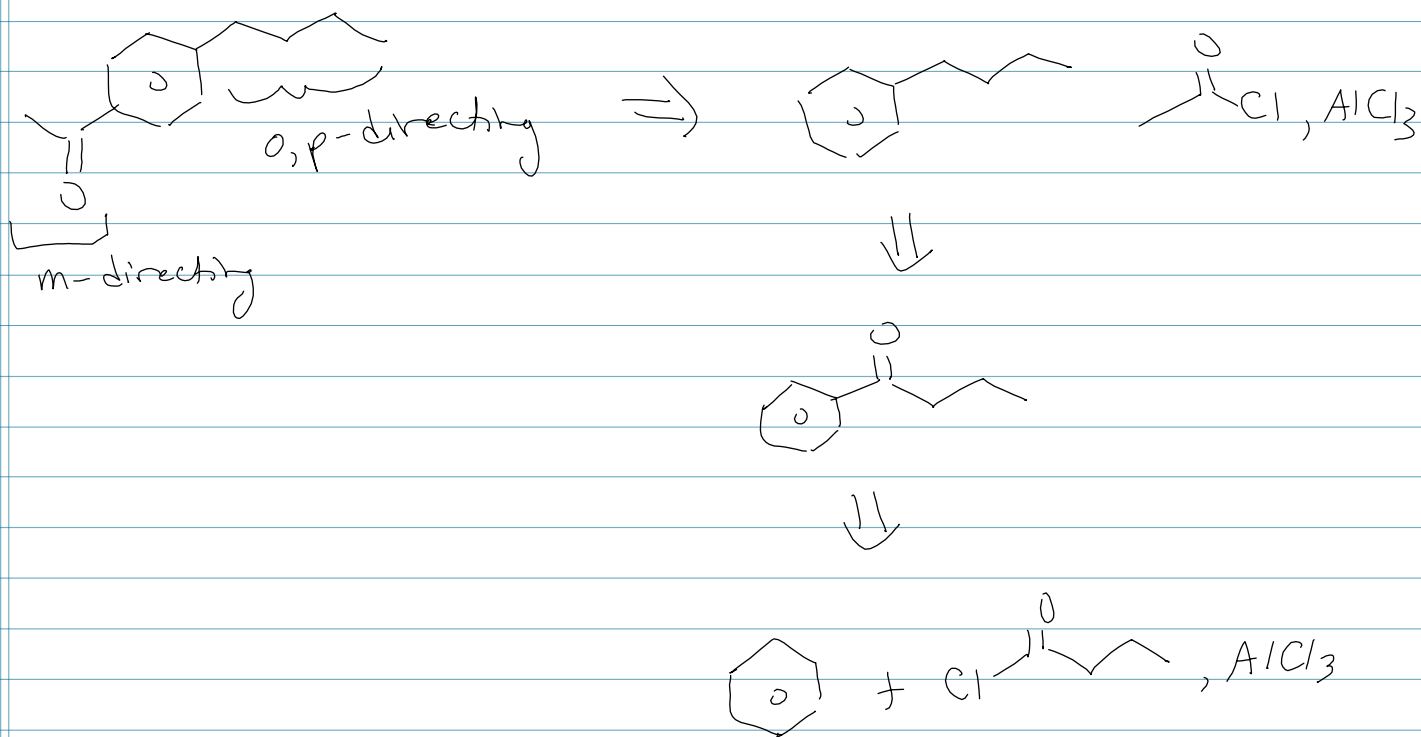




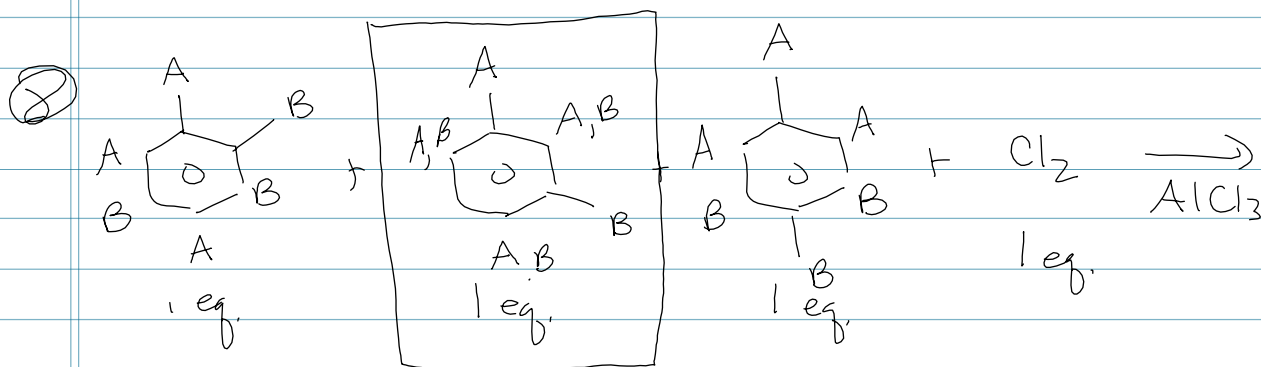
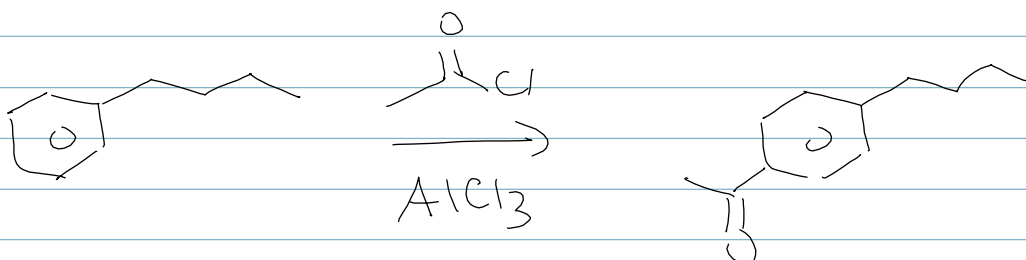
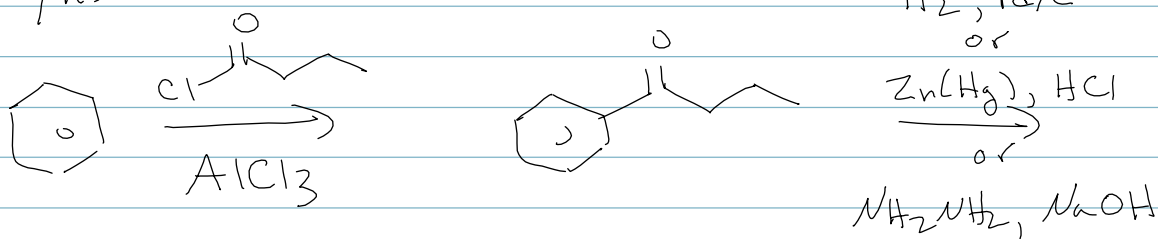
Synthesis



⑦

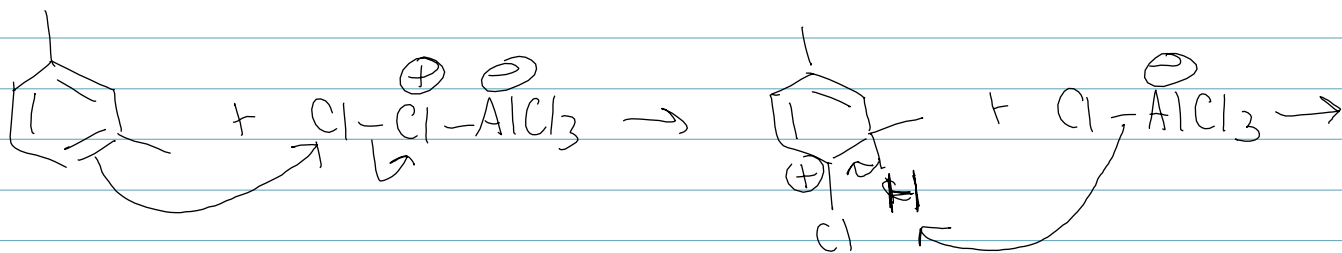
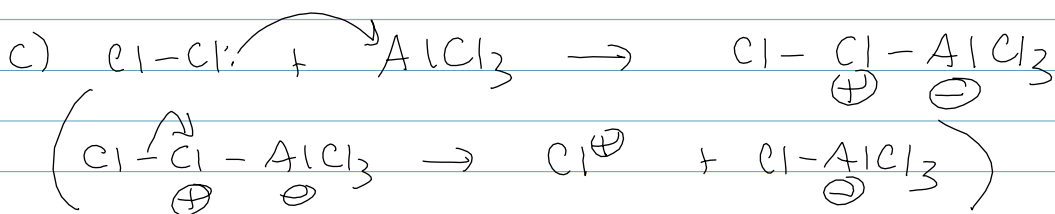


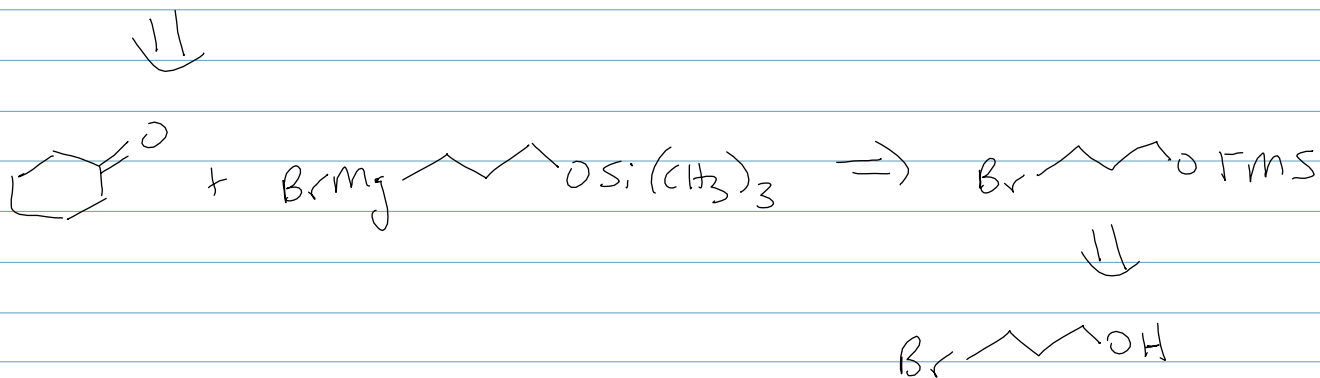
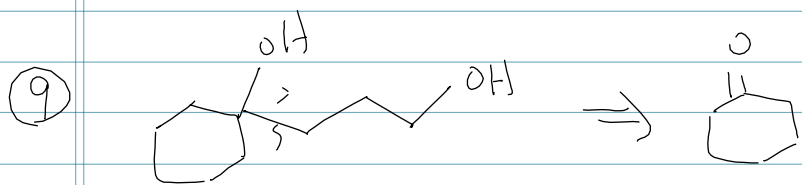
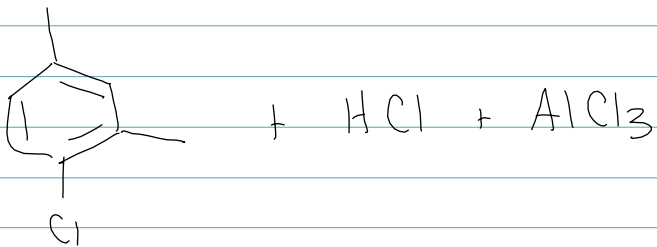
### Synthesis



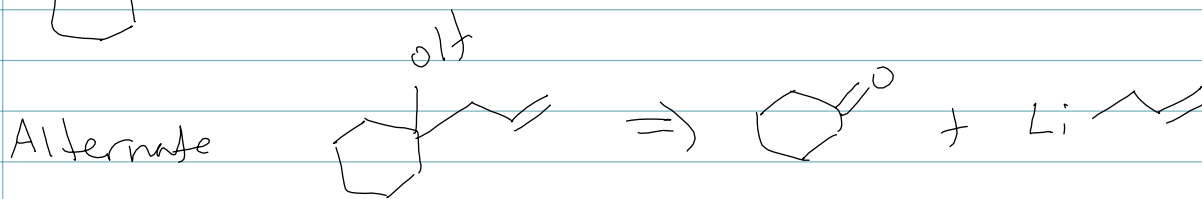
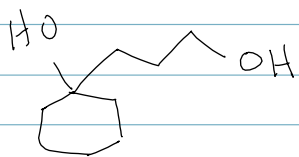
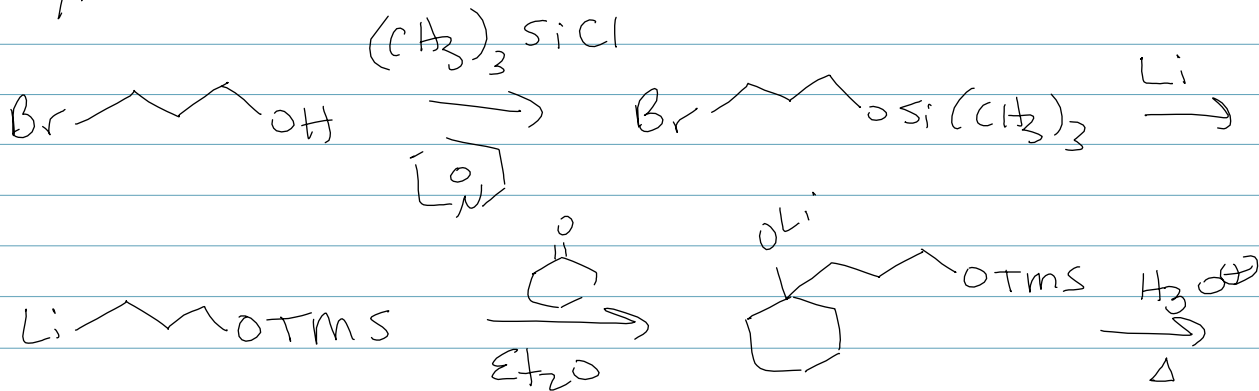
a) meta

b) Both  $CH_3$ 's activate/direct to same positions.

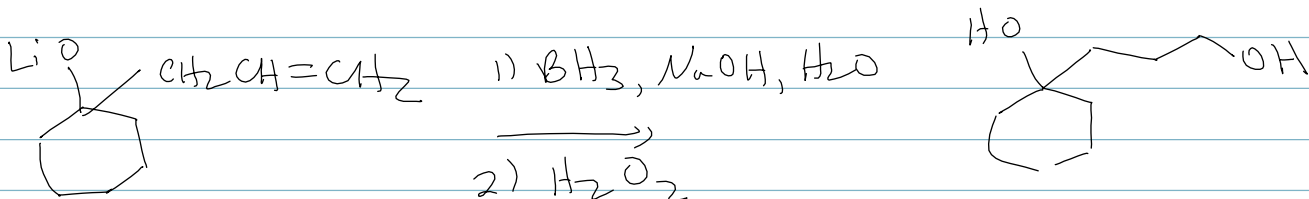
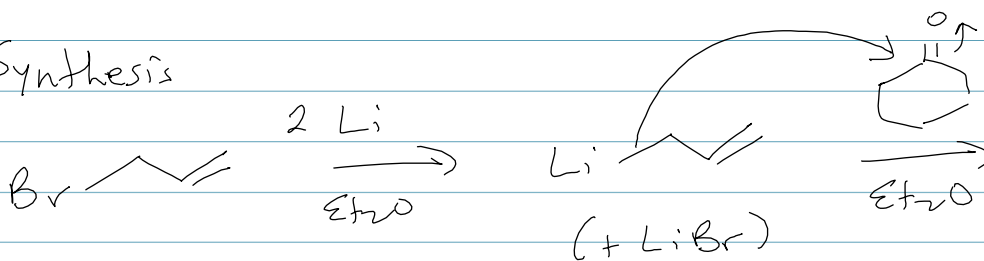




Synthesis



Synthesis



10

