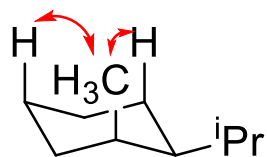
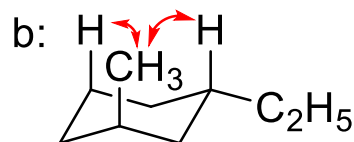


2.2 kcal/mol

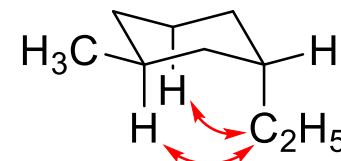


1.8 kcal/mol

0.4 kcal/mol安定

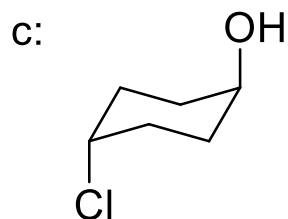


$0.9 \times 2 = 1.8$ kcal/mol

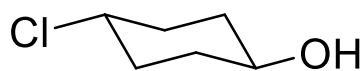


$0.9 \times 2 = 1.8$ kcal/mol

安定性は同じ

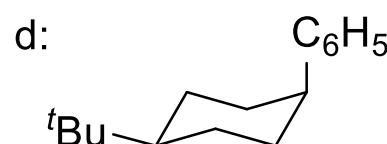


1.46 kcal/mol

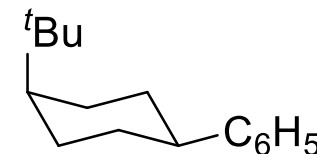


0 kcal/mol

1.46 kcal/mol安定

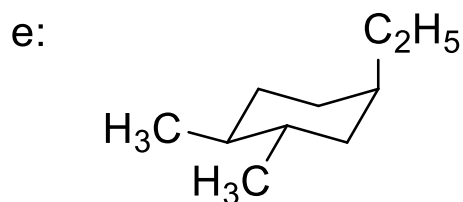


2.9 kcal/mol

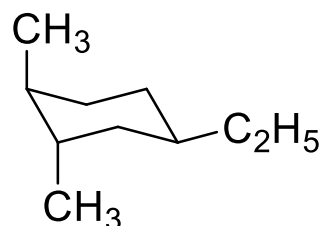


5.0 kcal/mol

2.1 kcal/mol安定



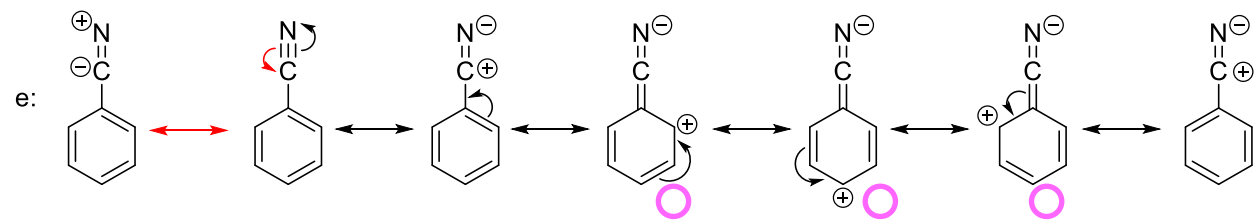
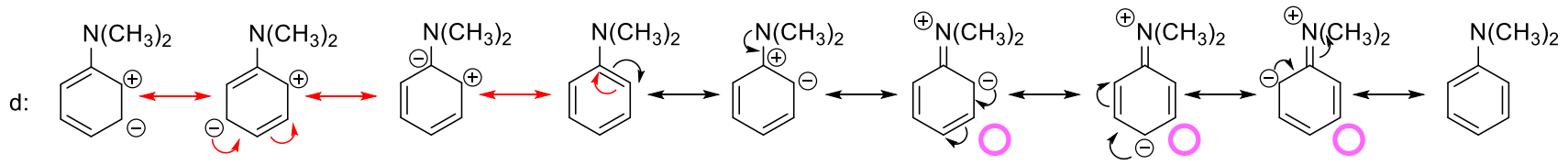
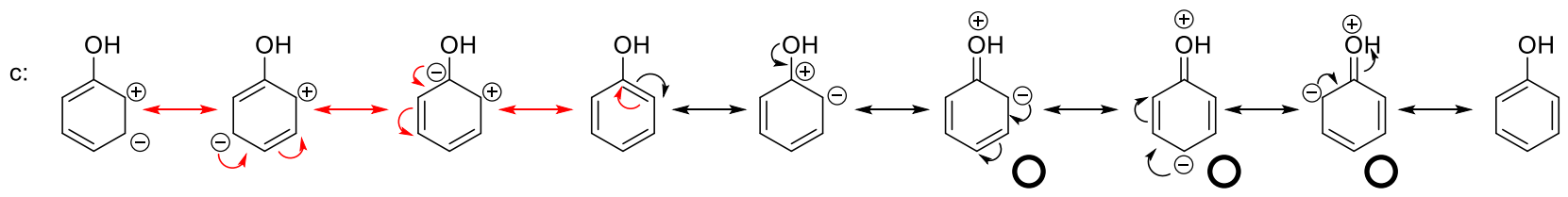
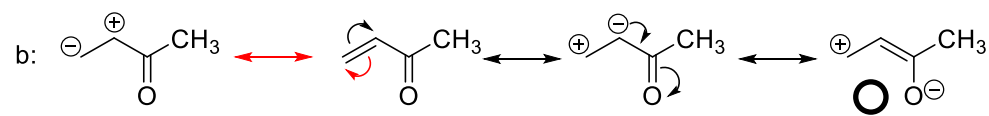
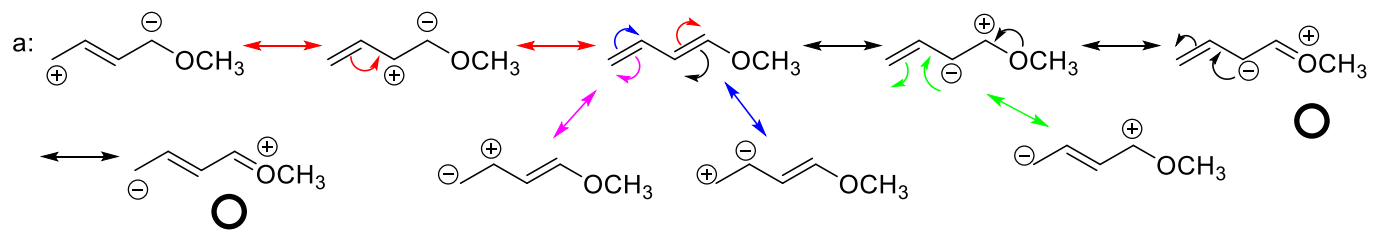
1.8 kcal/mol



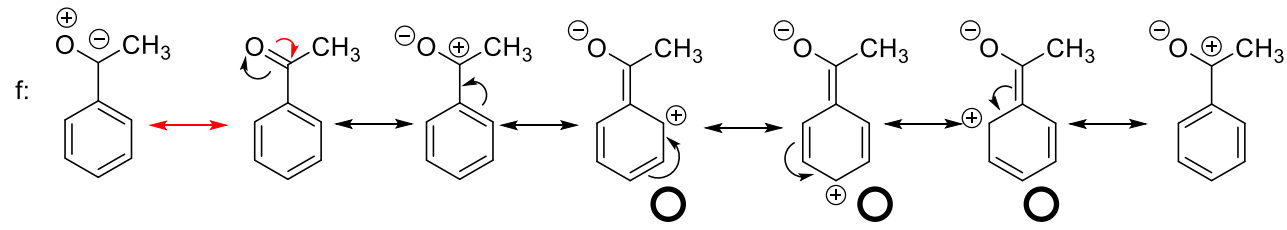
3.6 kcal/mol

1.8 kcal/mol安定

化学D宿題02 問題2の解答例

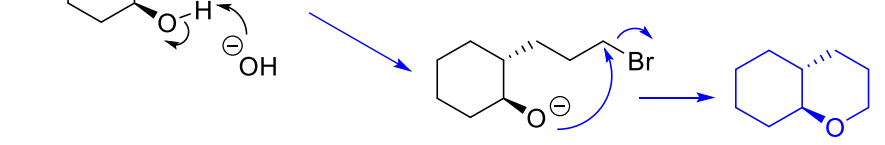
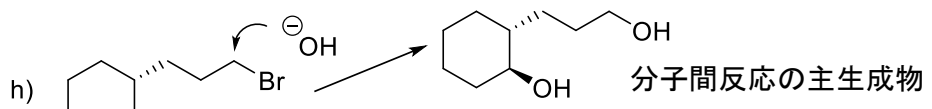
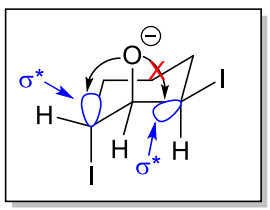
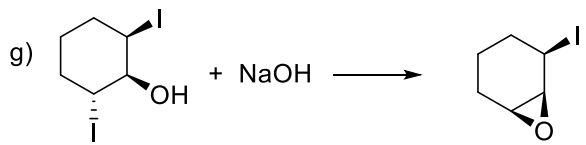
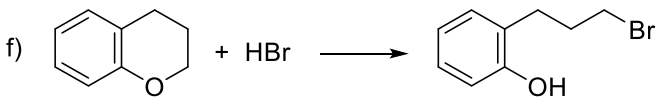
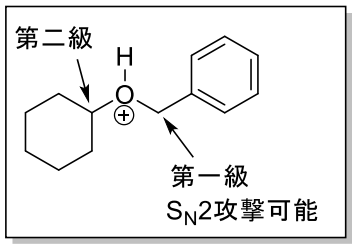
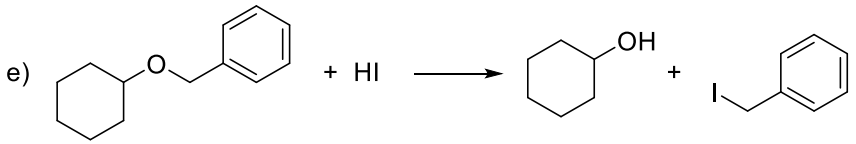
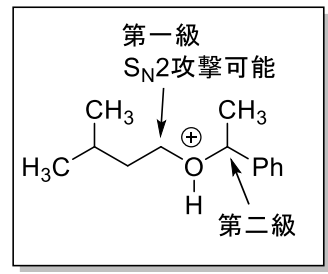
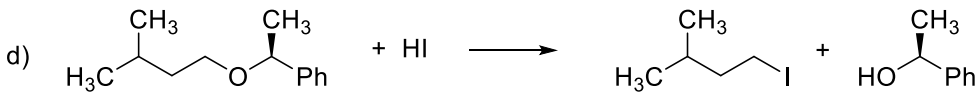
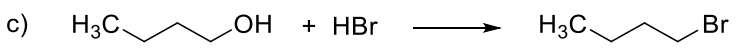
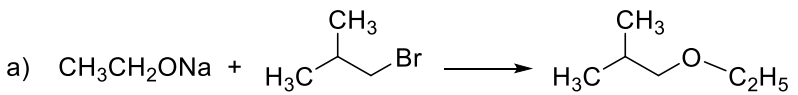


正電荷がベンゼン環上に非局在化している。反応性を考えるときに重要な構造

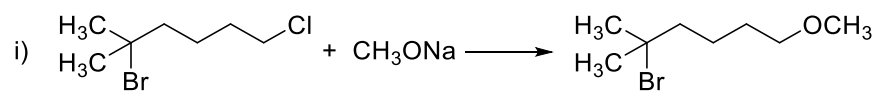


正電荷がベンゼン環上に非局在化している。反応性を考えるときに重要な構造

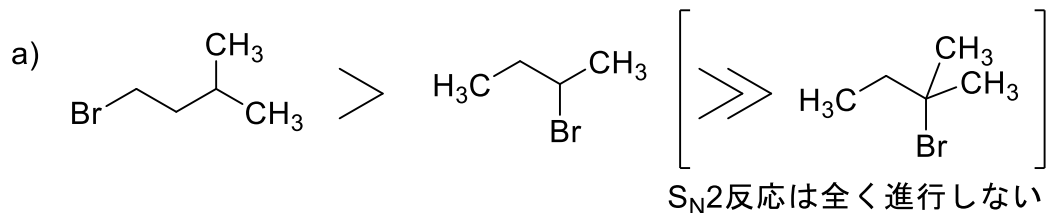
化学D宿題02 問題3の解答例



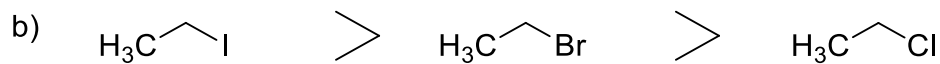
分子内反応の主生成物



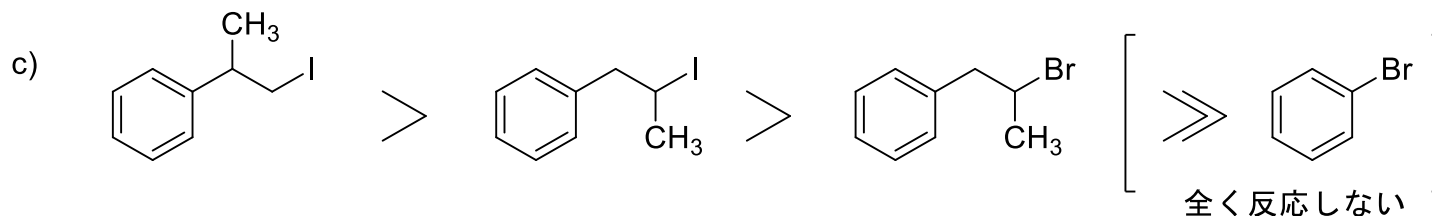
化学D宿題02 問題4の解答例



求核攻撃の受け易さ: 第一級 > 第二級



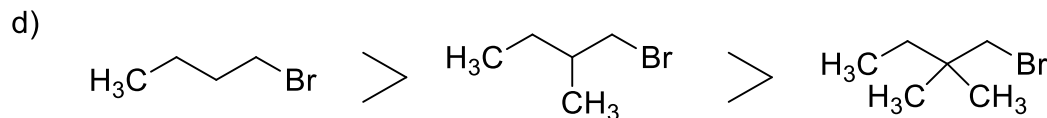
脱離基の脱離能: I > Br > Cl



求核攻撃の受け易さ: 第一級 > 第二級

脱離基の脱離能: I > Br > Cl

強い電子求引性置換基をもたない芳香族ハロゲン化物は求核置換を受けない



求核置換反応を受ける炭素に隣接する炭素上の立体的かさ高さが高いと求核攻撃を受けにくくなる