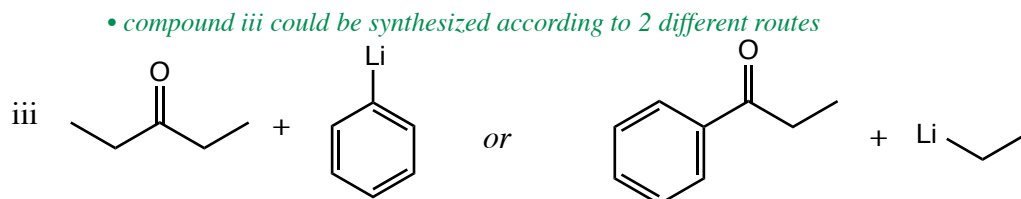
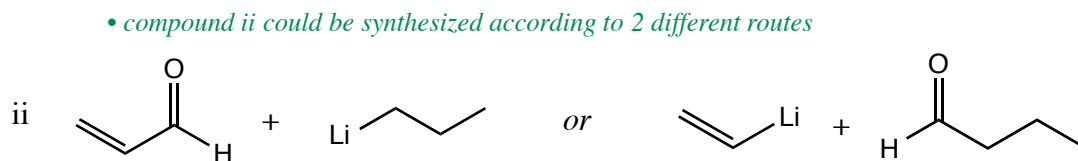
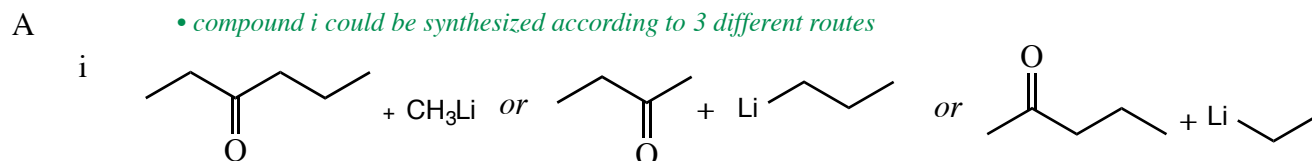
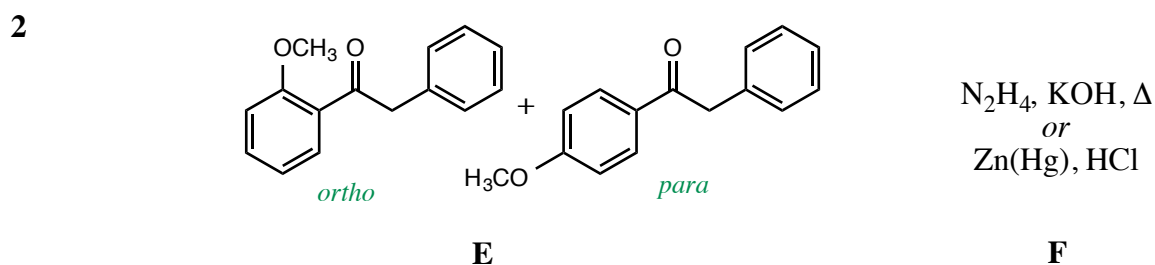
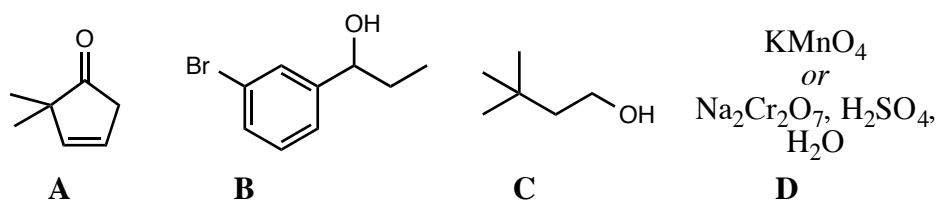
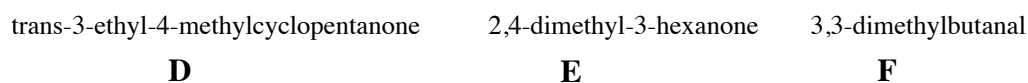
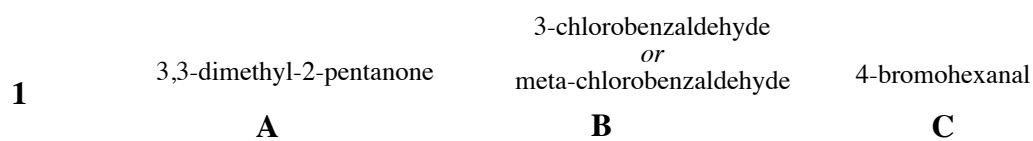


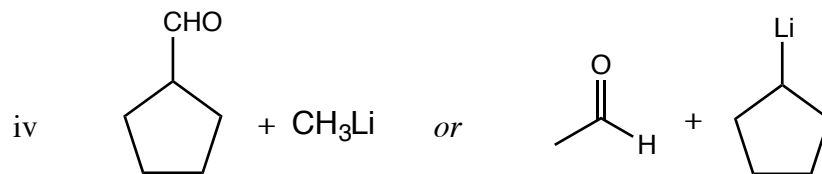
Chapter 20 Practice Problems

Solutions



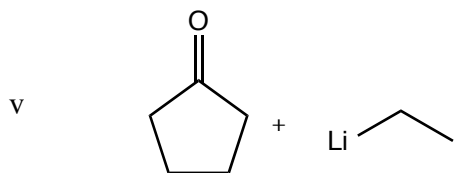
B

• compound iv could be synthesized according to 2 different routes

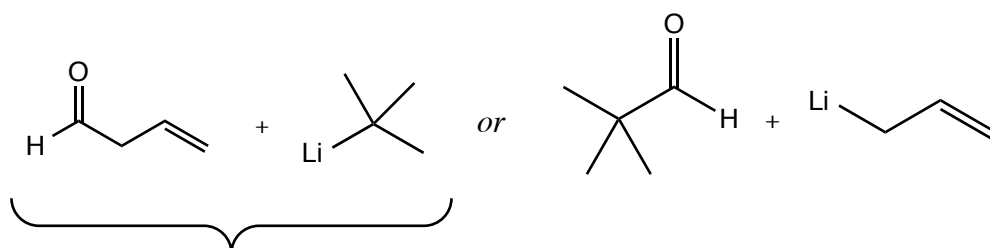


3

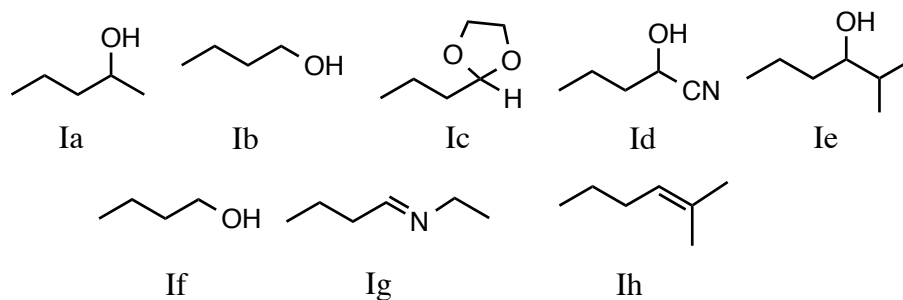
• compound v could be synthesized according to 1 route



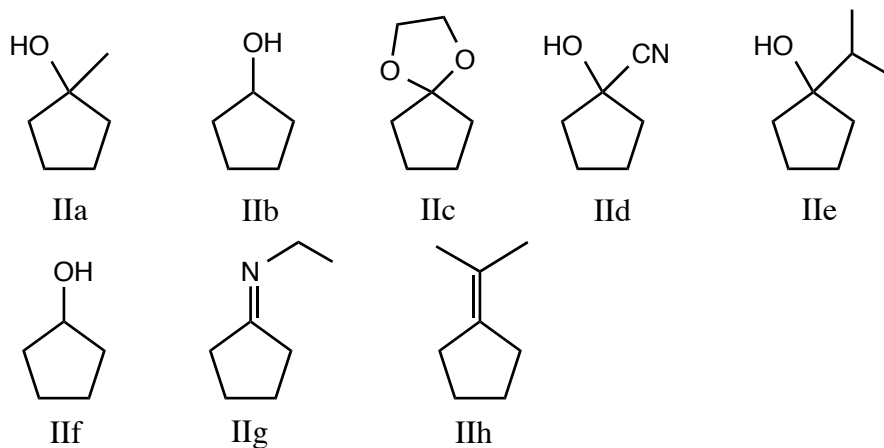
C

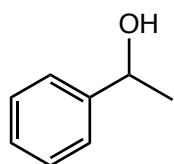


• not possible because tert-butyl lithium is too bulky of a nucleophile for the addition reaction to occur!

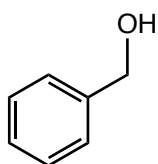


4

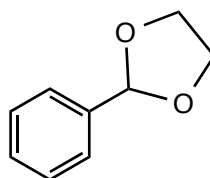




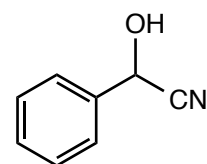
IIIa



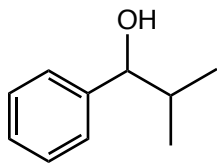
IIIb



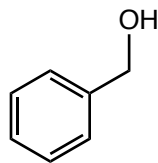
IIIc



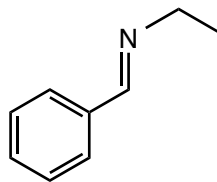
IIId



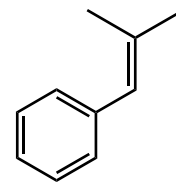
IIIe



IIIf

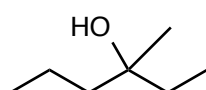


IIIg

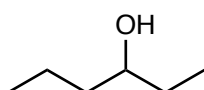


IIIh

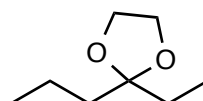
4



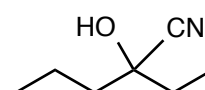
IVa



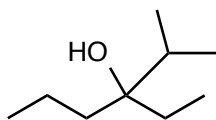
IVb



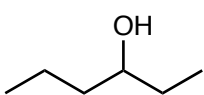
IVc



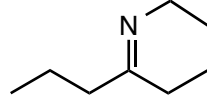
IVd



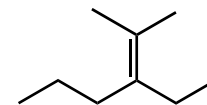
IVe



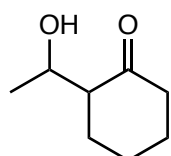
IVf



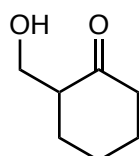
IVg



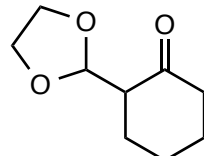
IVh

one equivalent

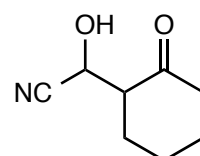
Va



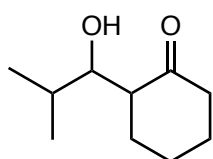
Vb



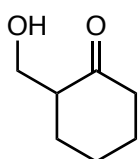
Vc



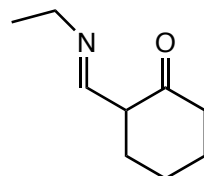
Vd



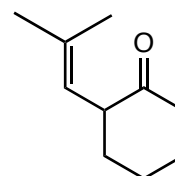
Ve



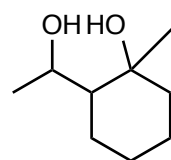
Vf



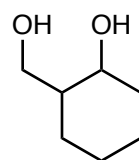
Vg



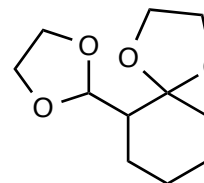
Vh

two equivalents

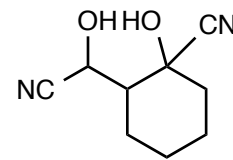
Va



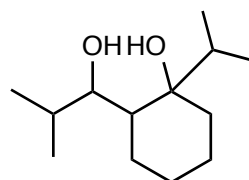
Vb



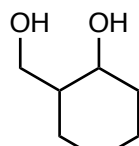
Vc



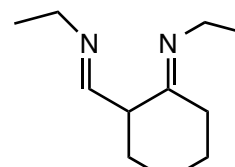
Vd



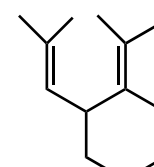
Ve



Vf

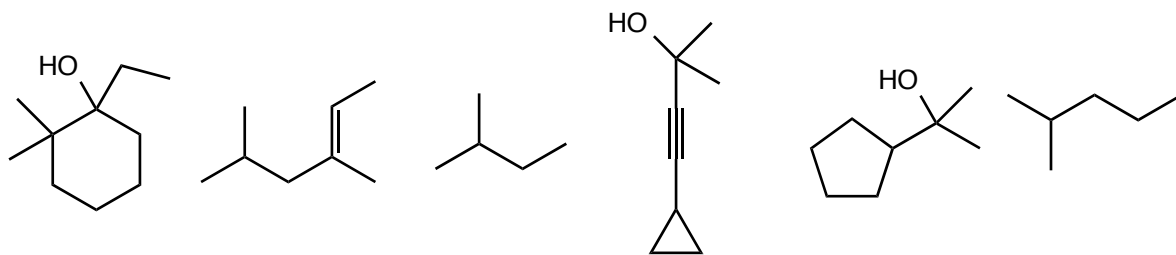


Vg



Vh

5



6

