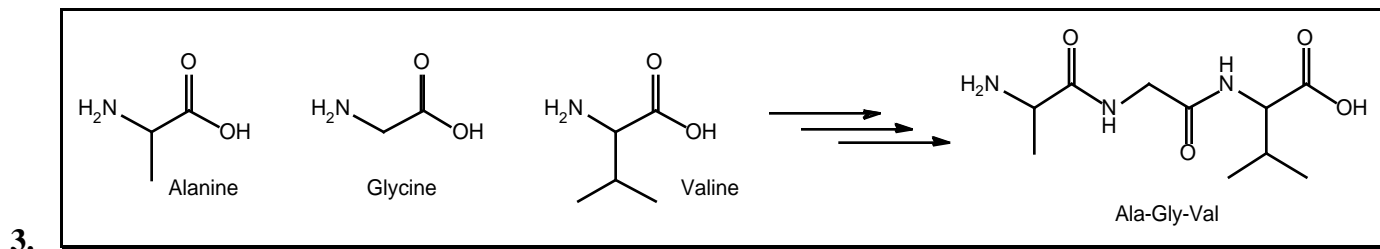
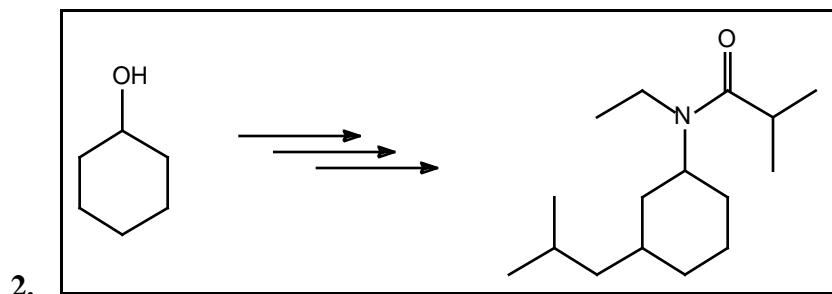
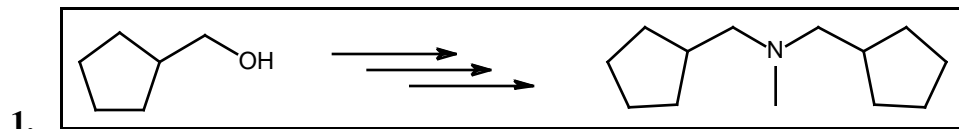


The following problems require knowledge of the reactions in Chapter 17-25 and 27 of "**Organic Chemistry, 4th Edition**" (John McMurry; Brooks/Cole 1996). In addition to the given starting materials (which you must use in your syntheses), you may use any **REACTANT/REAGENT** is **5 CARBONS** or less in any synthetic step, unless specified otherwise. You may have **DCC** and **Ph₃P** at no extra charge.



Prepare the following molecules from *any reactants/reagents* containing **5 carbons** or less!

