1. Calculate the isoelectric point of the following peptides:
   a. RICE
   b. KRAFTY
   c. FEKETE

2. Draw the peptide, ATLDAK. What is its net charge at pH 7.0?

3. The two Cα hydrogen atoms of Gly are said to be prochiral because when one of them is replaced by another group, Cα becomes chiral. Draw a Fischer projection of Gly and indicate which H must be replaced with a methyl group to yield d-Ala.

4. If you had a 100 mL solution of 4.0 mM aspartic acid, buffered at pH 2.1, how many moles of KOH are required to increase the pH to 9.5? (you may assume constant volume)