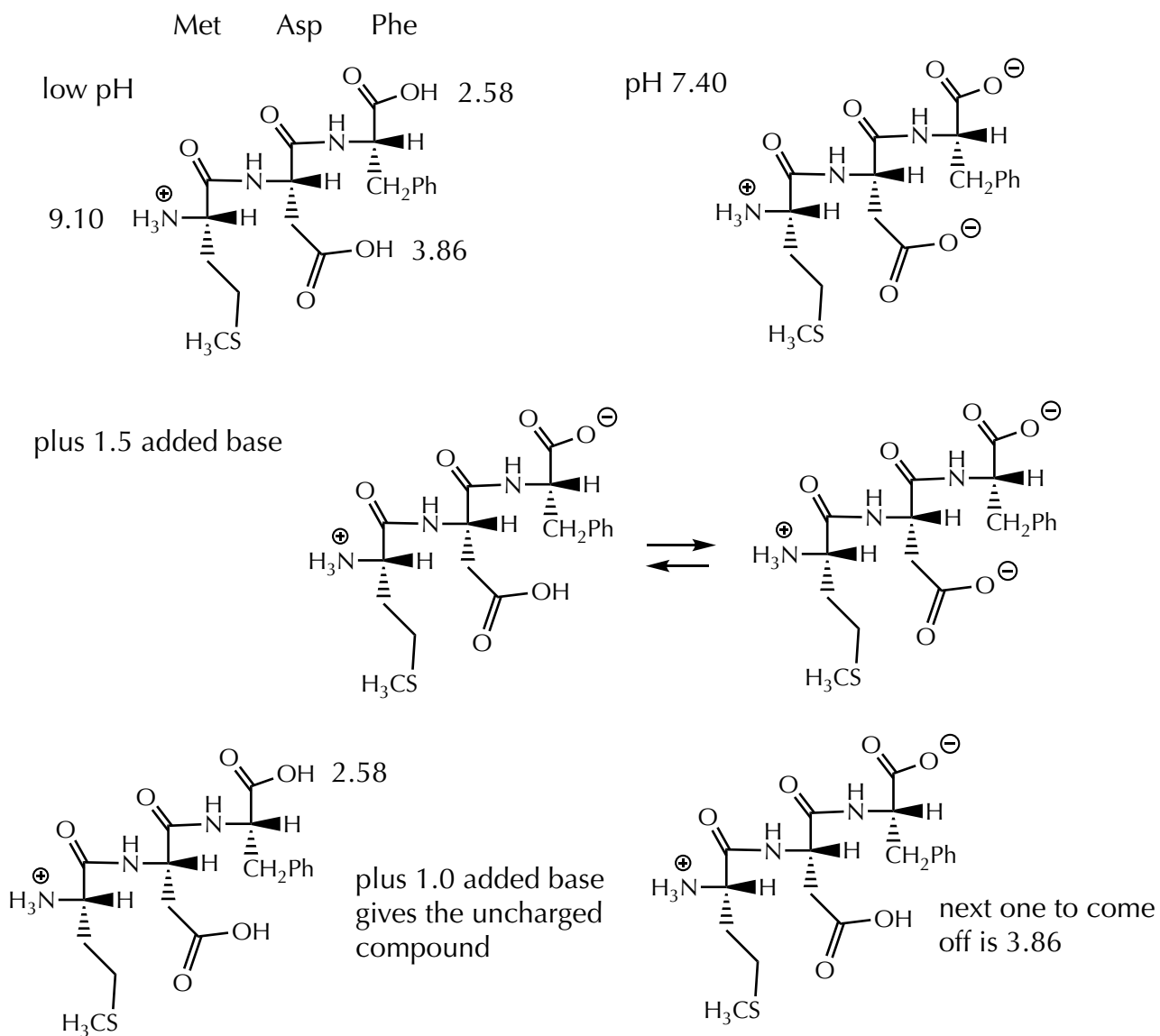


In principle, the four questions asked of the two tripeptides used in Q17.01 can be answered for any tripeptide. Create a tripeptide and answer the questions. Share your results with others and do them the return favor.

There are hundreds of possibilities!

For each of the following tripeptides:

- (i) Draw the low pH structure.
- (ii) Draw the major structure that exists at physiological pH (7.40).
- (iii) Draw the structures that exist at 1.5 equivalents of added base.
- (iv) Estimate the value of the isoelectric point.



$$\text{isoelectric point estimate} = (2.58 + 3.86)/2 = 3.22$$