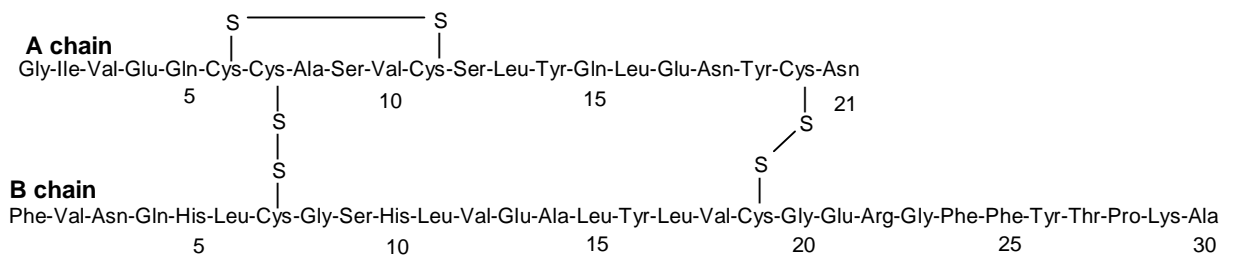


Calculate the pI of the following peptides:

1. Met, Tyr, Ser, Phe, Gly, Lys, Val
2. Cys-Tyr-Ser-Met-Glu-His-Phe-Arg-Cys-Gly-Lys-Pro-Val
3. Leu - Lys - Val - Ser - Cys - His - Asp - Asp - Phe - Ser - Tyr - Cys - Ile
4. Asp - Asn - Arg - Tyr - His

Bonus:



The primary structure of bovine insulin.

This protein is composed of two polypeptide chains (A and B) joined by disulfide bonds. The A chain also contains an internal disulfide bond.