Set Theory Assignment

Your task is to create a Venn diagram with at least 20 elements. Your Venn diagram must have 3 non-disjoint sets. Name your subsets A, B and C. Once you list your elements and draw your diagram below, answer the questions at the bottom of the page. Ensure that you state the name of each of your subsets.

Answer the following questions using your Venn diagram above.

1. n(U)=
2. A∩B∩C=
3. n(A∩B∩ C)=
4. A U B=
5. n( A U B)=
6. n(A ∩ C)=
7. n(B’)=
8. (AUC)’=
9. n((B∩C)\A)=
10. AUC\B=