Written: 15 points
Topic: KNN, Logistic regression, KMC
Emphasis on **Logistic regression [click here](#)**

KNN:
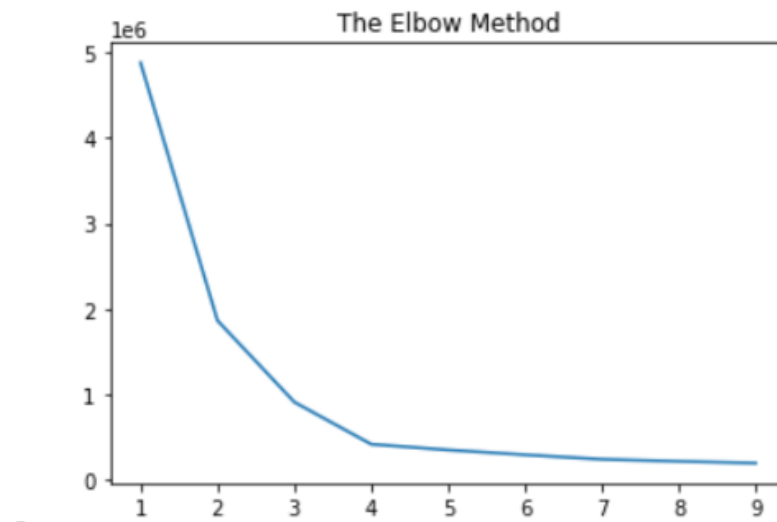How does validation set help in KNN? What's the purpose of validation set here?
Why do we normalize data in KNN?

KMC:
Is KMC supervised or unsupervised? Explain your answer.
Why is low inertia + low num of K a good predictor for KMC?

and summing these squares across one cluster. A good model is one with low inertia
AND a low number of clusters (K).

Logistic regression:
During training, how do we calculate theta in binary logistic regression?
How do we get learning rate using validation set? Explain the impact of
slow/fast/moderate"learning" in binary logistic regression.
Explain the nature of sigmoid function i.e what type of output it produces?