Homework #6 – Due April 20

- Use the iris dataset from the UCI repository to answer the questions below using the Weka Explorer.
 - Remove (unsupervised) all attributes except for petal length and class, and run the EM clustering algorithm with three clusters while selecting "classes to clusters evaluator." Explain the results obtained. Using these results, compute the probability that the following values of petal length belong to cluster 0, cluster 1, or cluster 2: petal length = 2.0, 5.0, 6.0.
 - For this question, remove all attributes except sepal length, petal length, and class, and apply the SimpleKMeans algorithm with three clusters, again selecting "classes to clusters evaluator." Explain the answer obtained. Suppose we have a new instance with sepal length =5.45 and petal length =5.00. What is the cluster of this instance. Justify your answer.