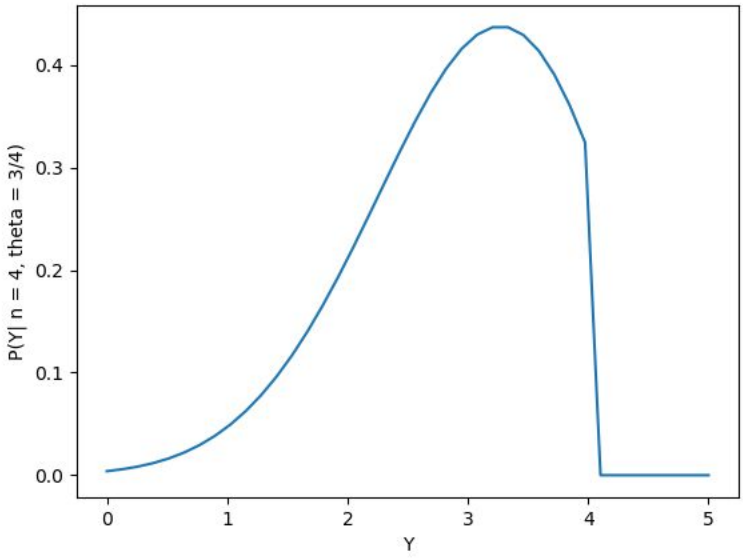
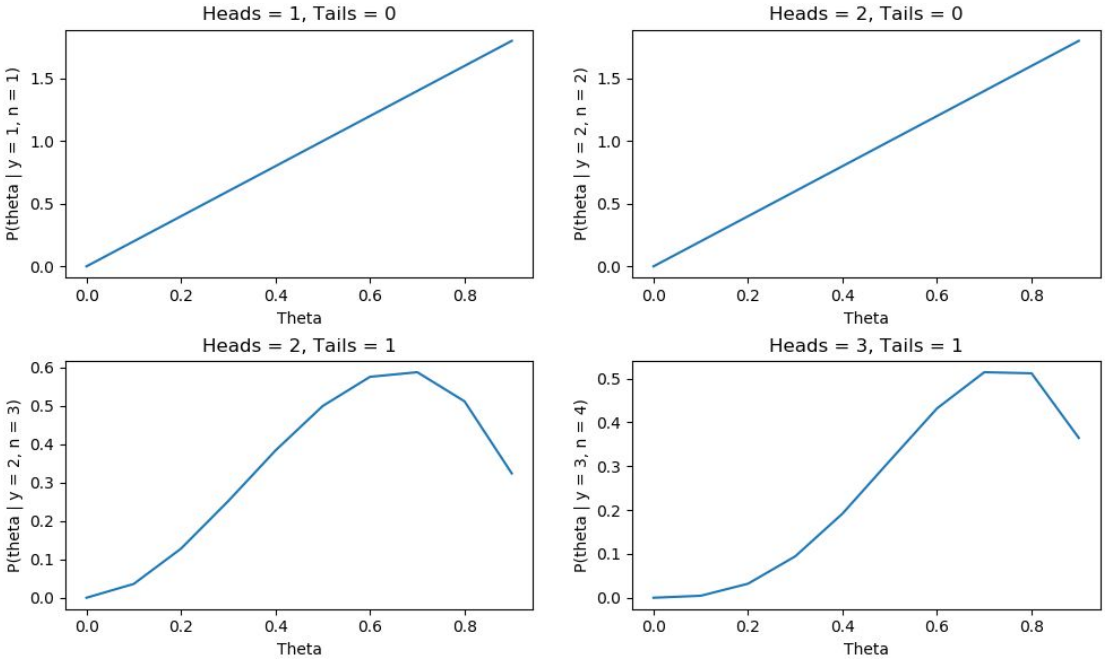
Question 1)

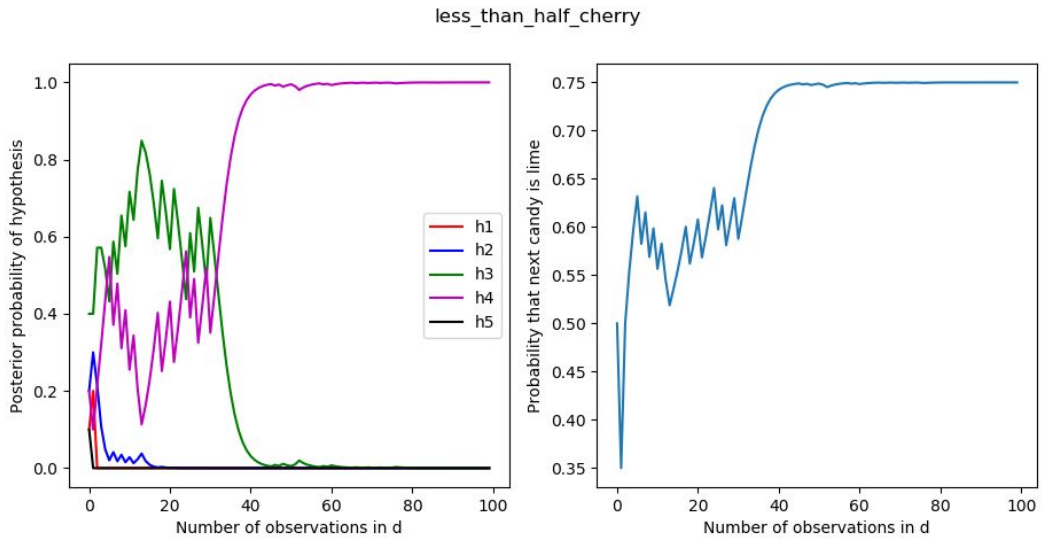
B)



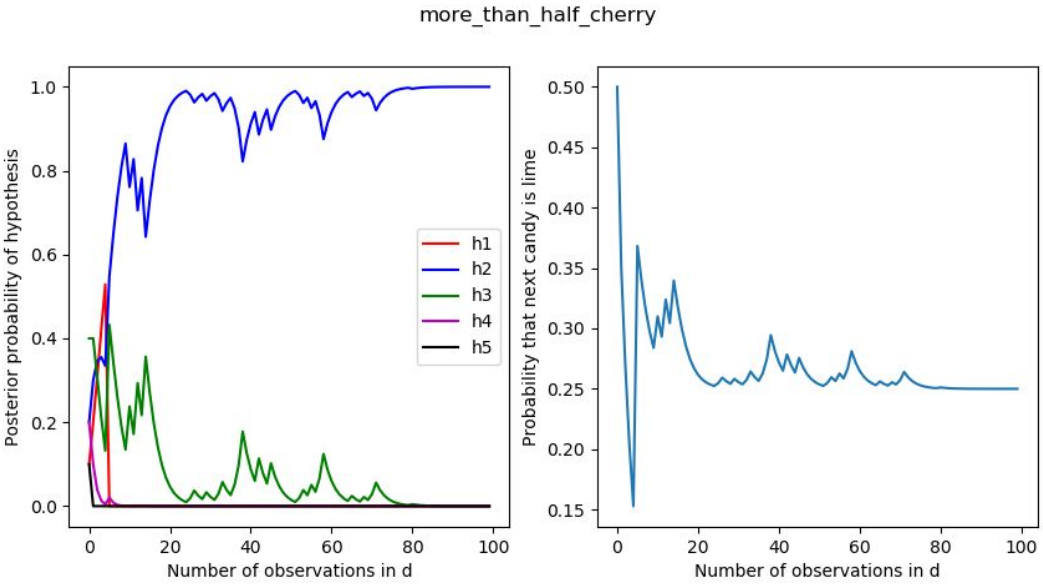
C)



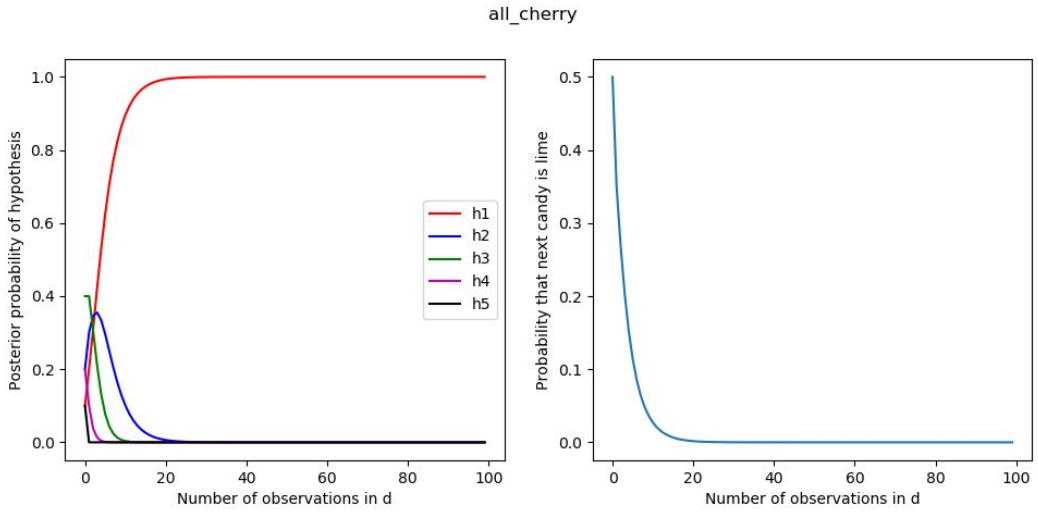
Question 2)
A)



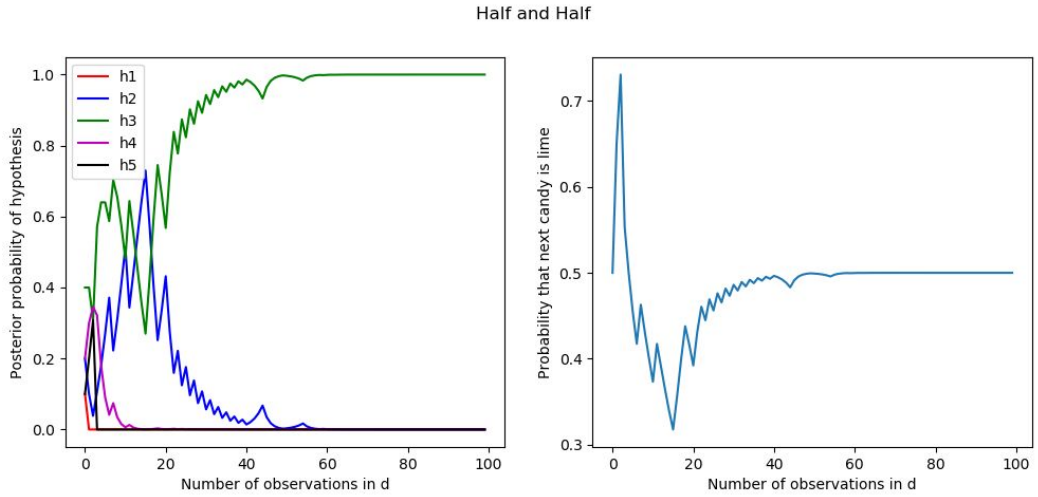
These graphs show that after a little less than 40 candies, we can become more confident in the assumption that the bag of candy that we have is 75% lime.



These graphs show that after opening around 10 candies, we can become more confident in the assumption that the bag we have is 75% cherry.

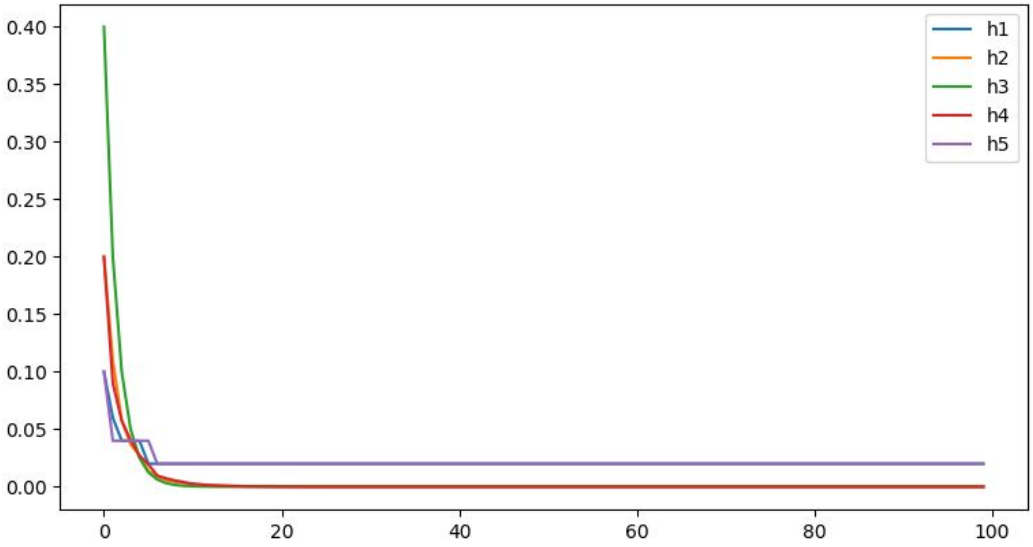


Similar to graph in the book, these graphs show that after opening very few candies, we can be certain that we have the bag with all cherry candies.



These graphs show that after opening a little more than 20 candies, we can become more confident in the assumption that the bag we have is 50% cherry.

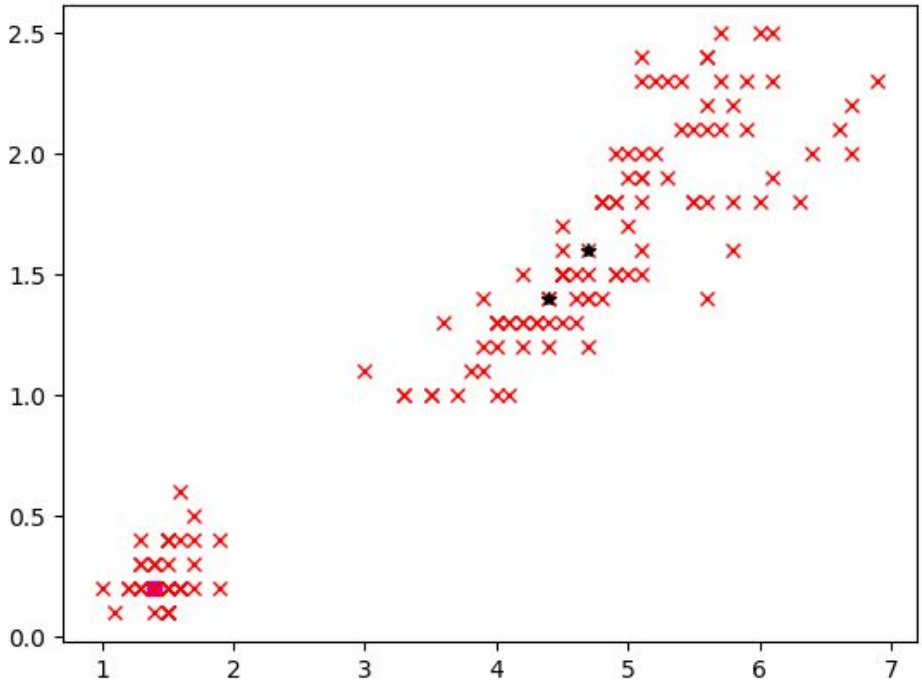
C)



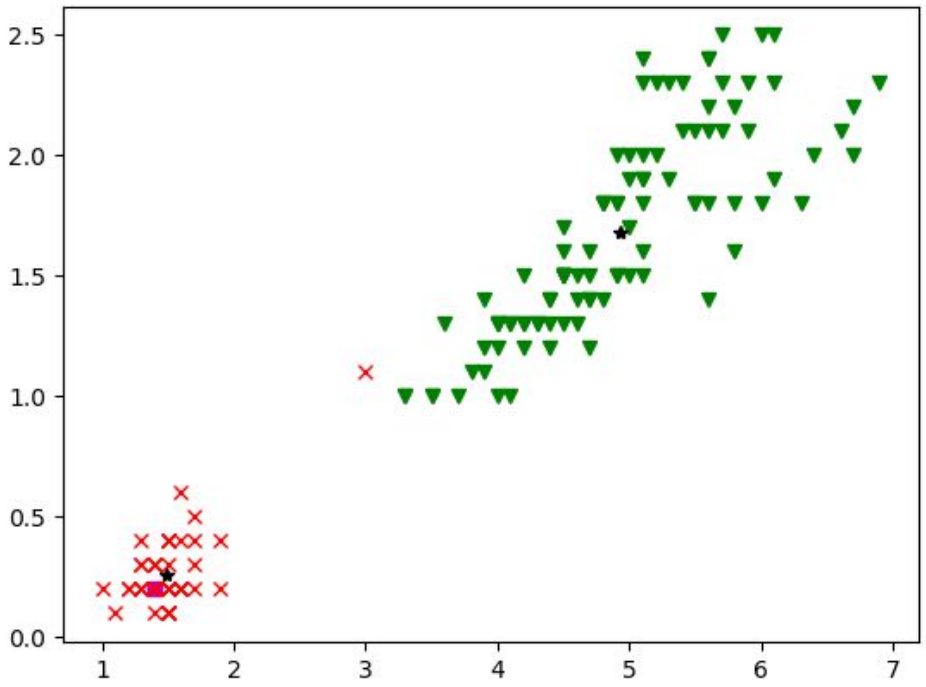
Extra Credit:

K = 2

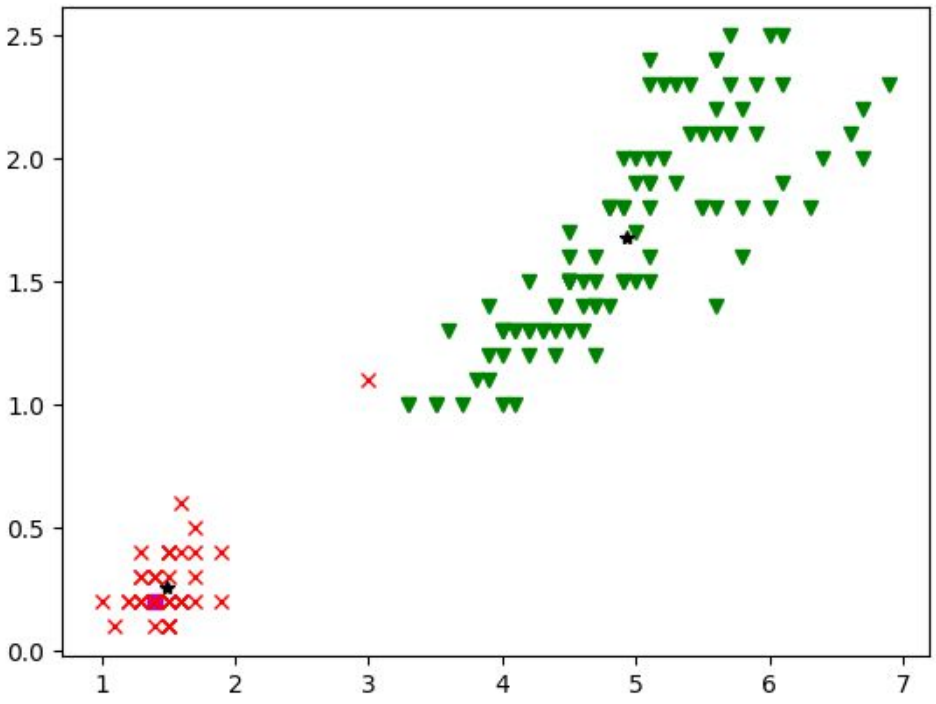
1. Initial Cluster Means



2. Intermediate Cluster Means

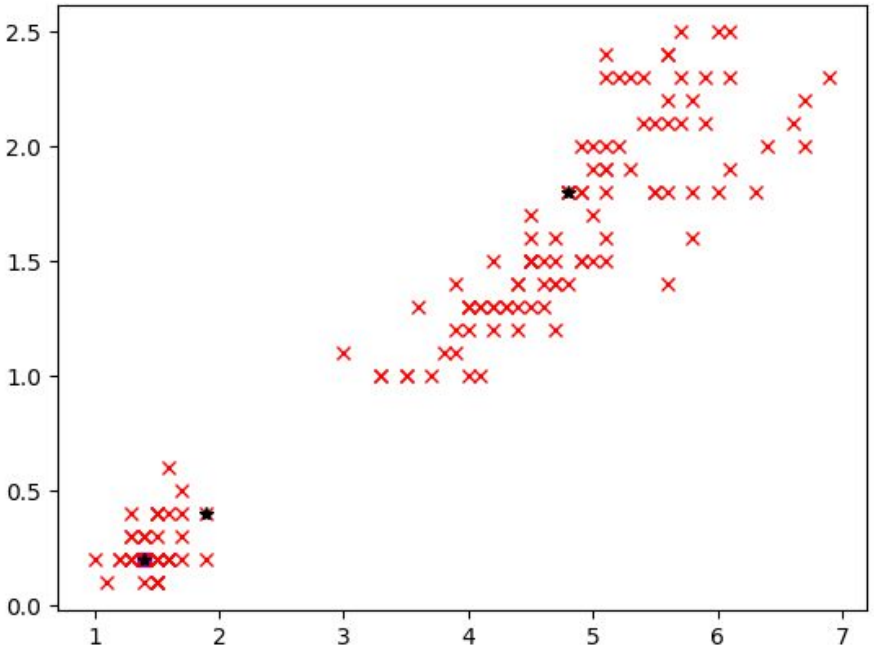


3. qw

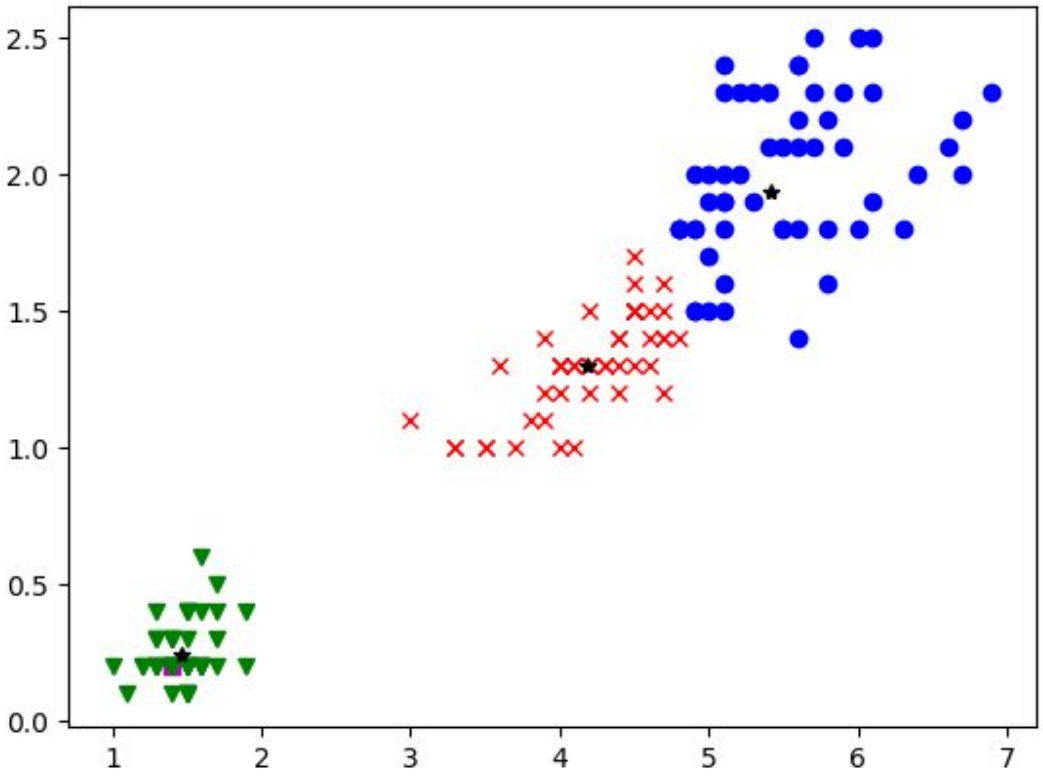


K = 3

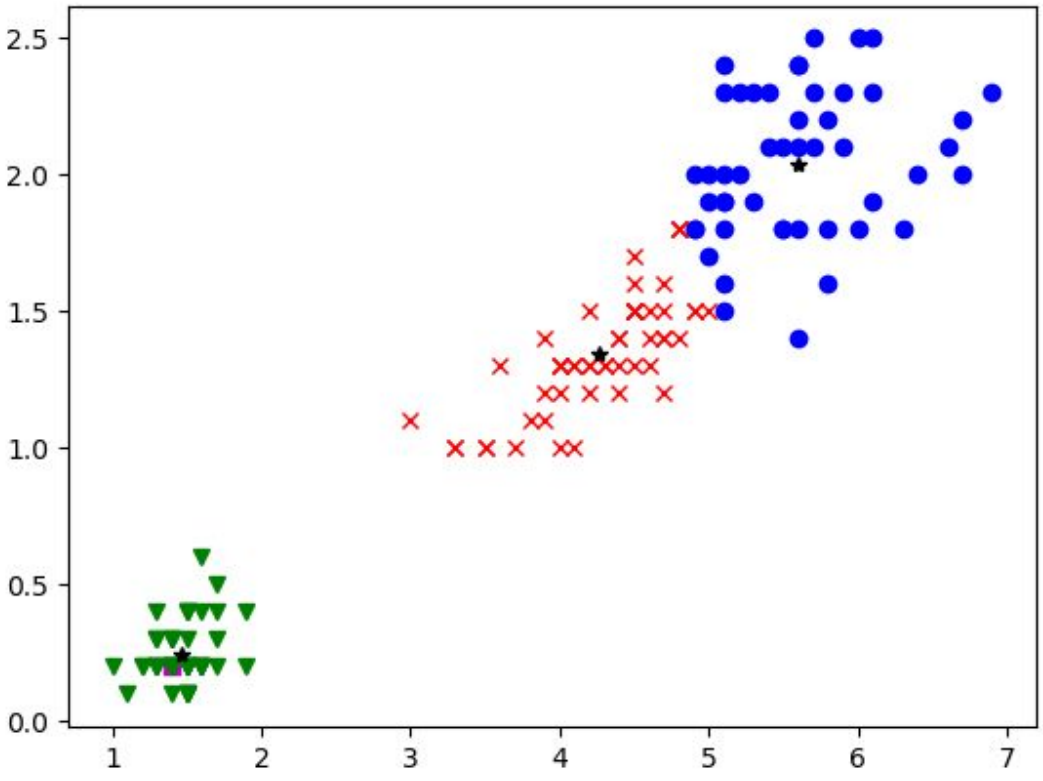
1. Initial Random Cluster Means



2. Intermediate Cluster Means



3. Final Cluster Means


2.5
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7