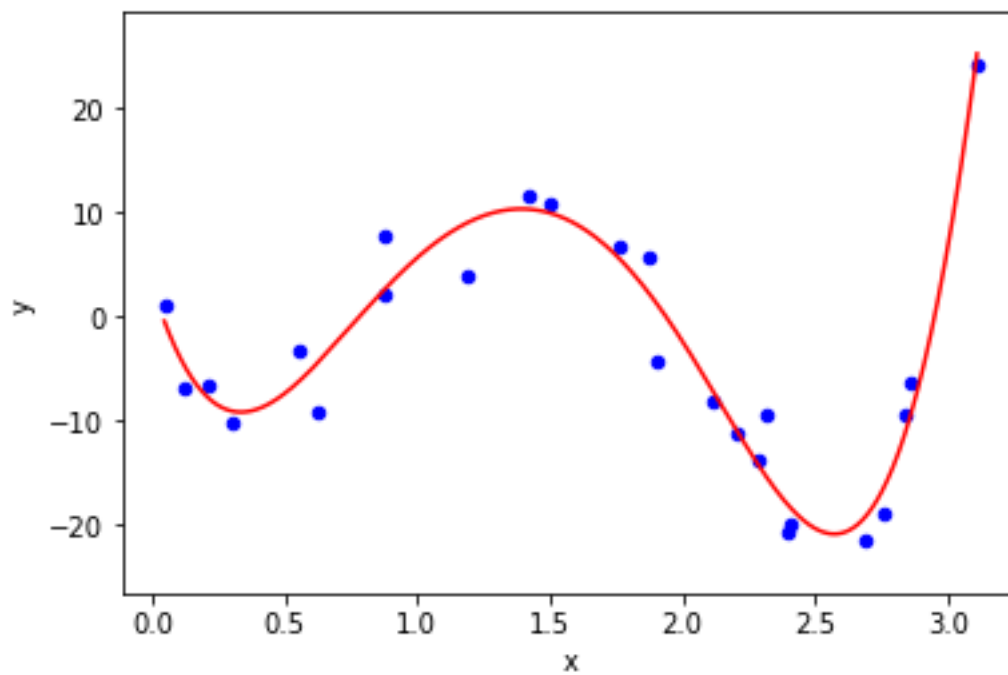


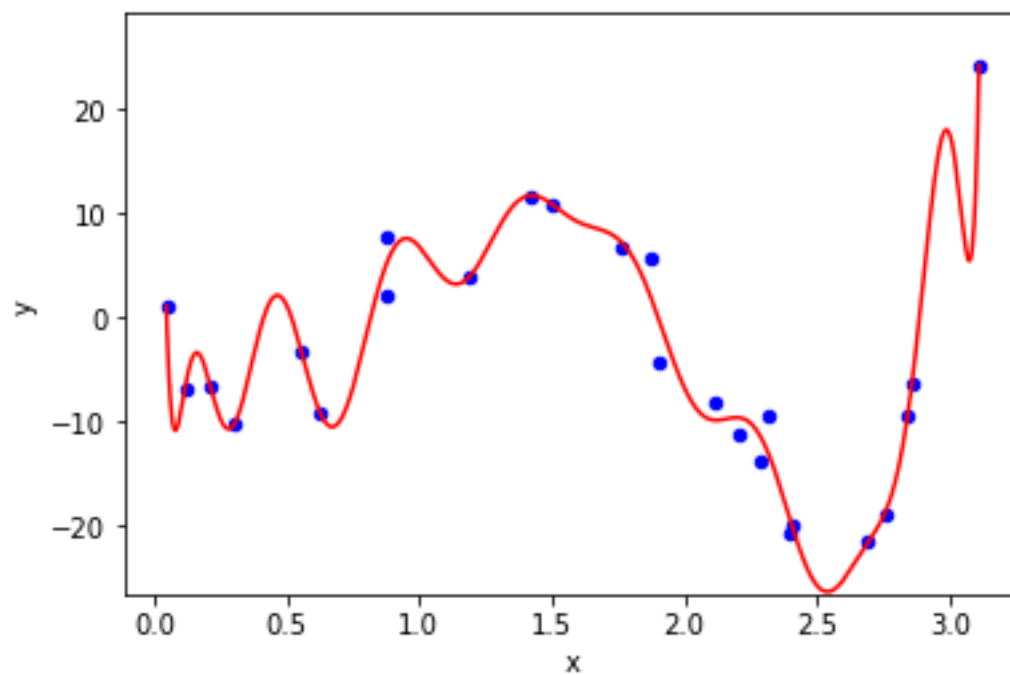
TAHIR MUHAMMAD
1002537613

QUESTION 1

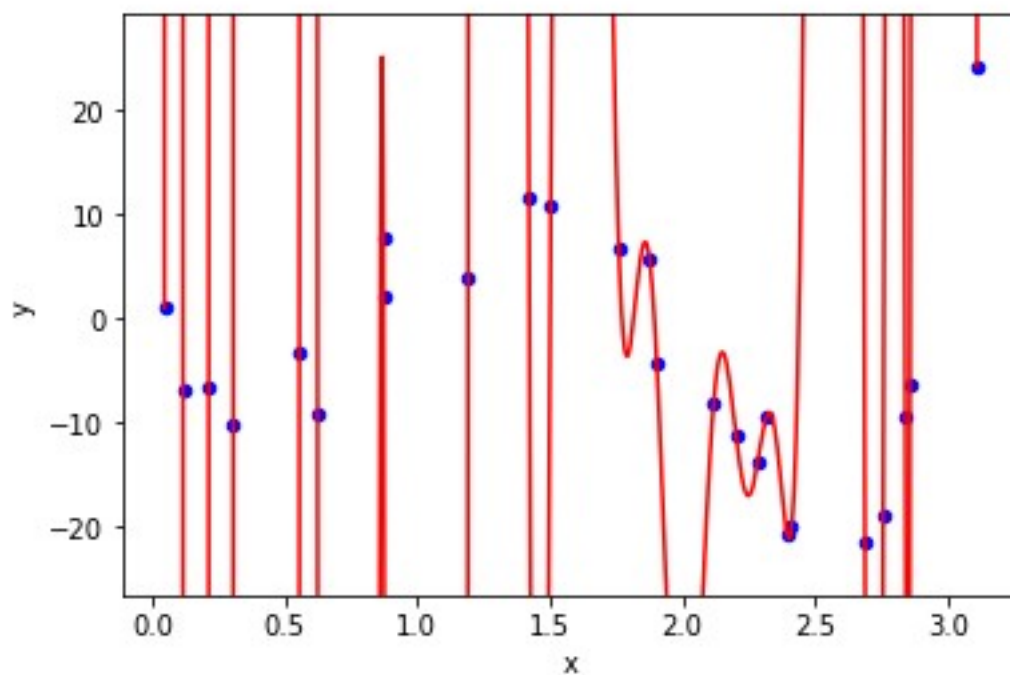
Question 1(b): the fitted function ($K=3$).



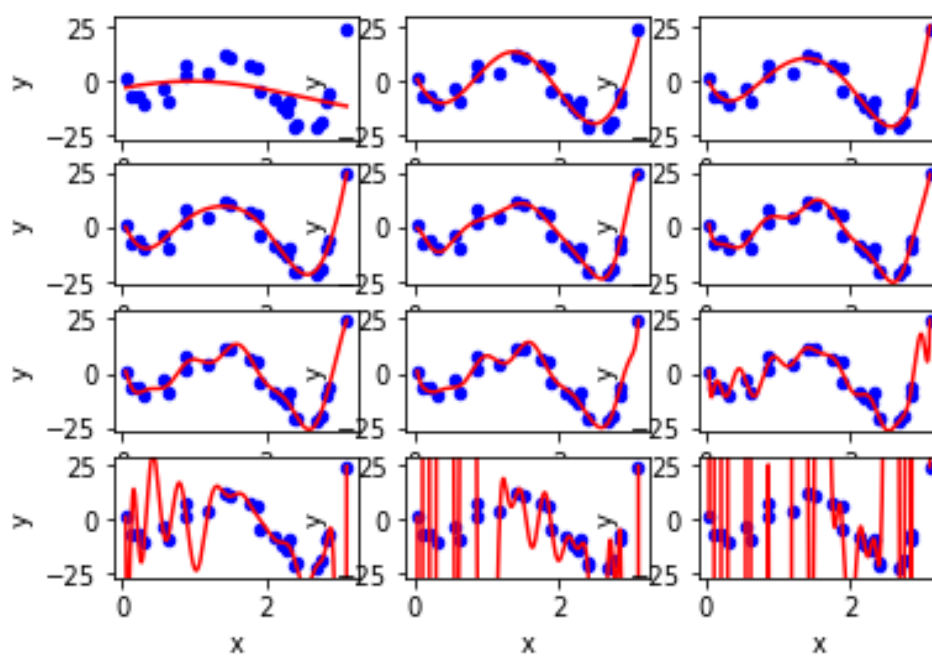
Question 1(c): the fitted function ($K=9$).

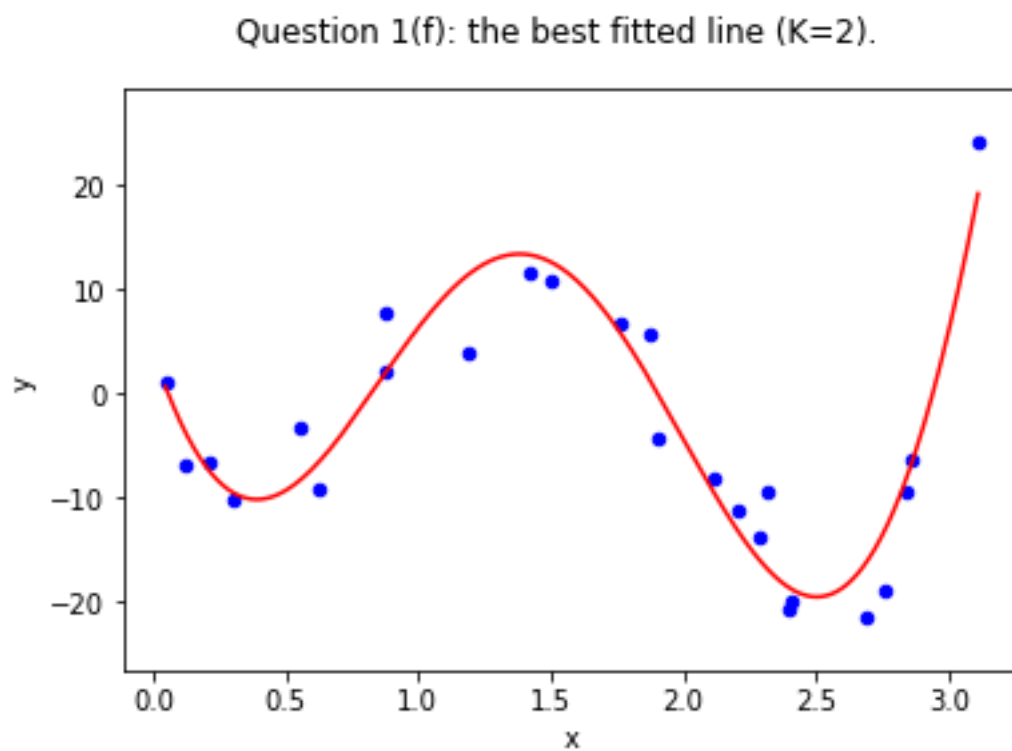
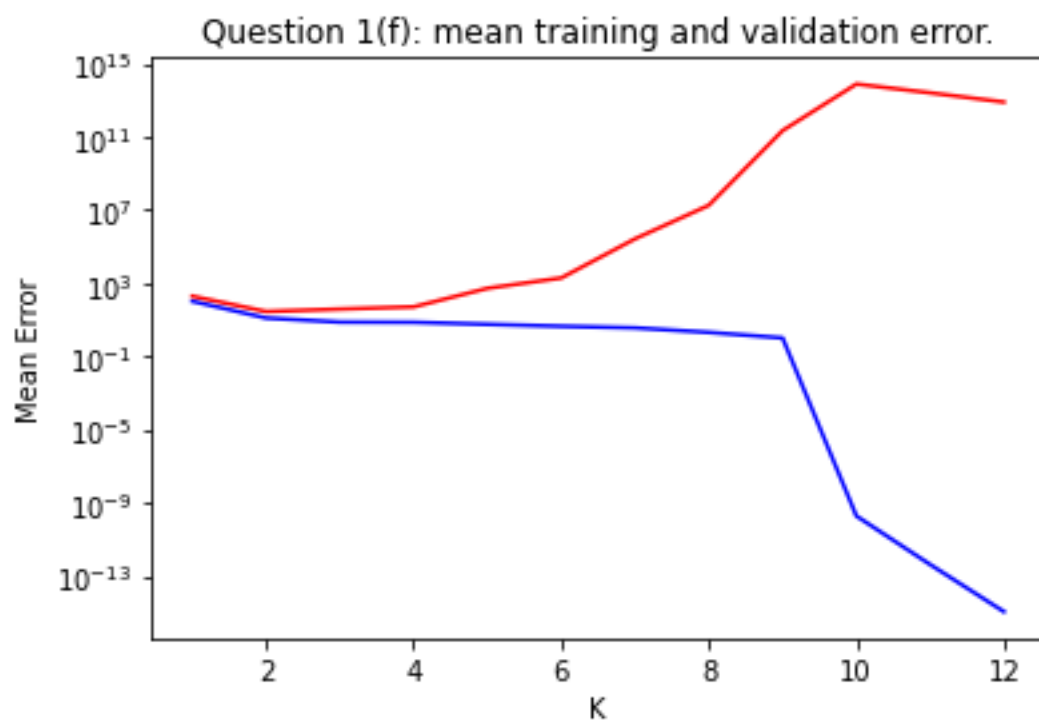


Question 1(d): the fitted function ($K=12$).



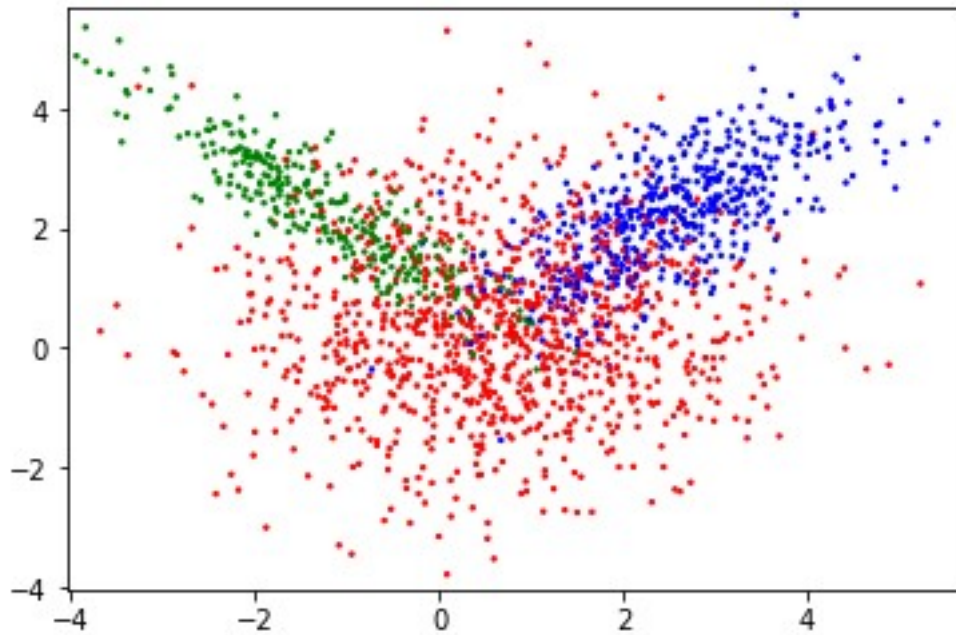
Question 1(e): fitted functions for many values of K .



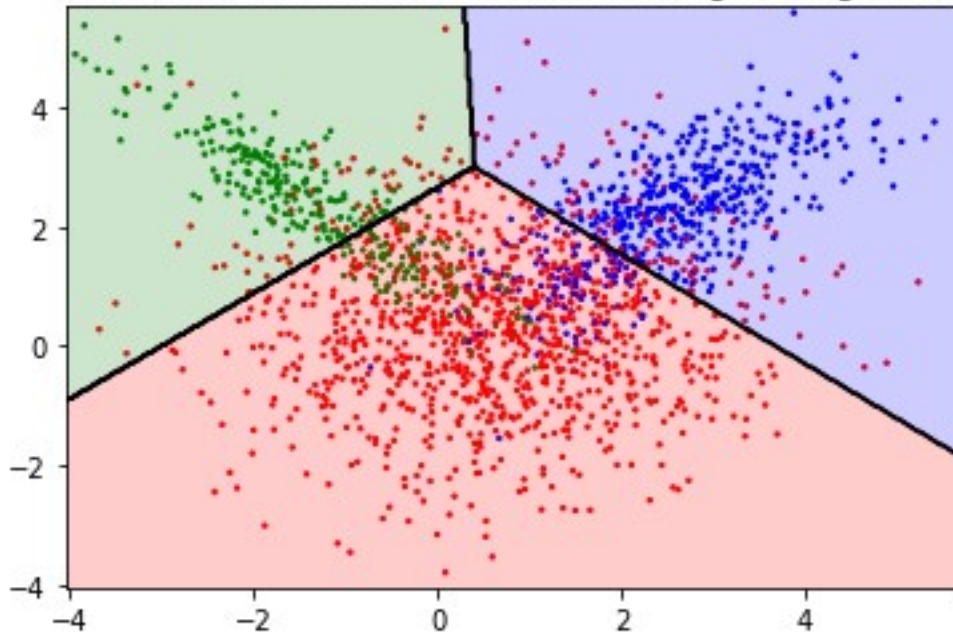


QUESTION 2

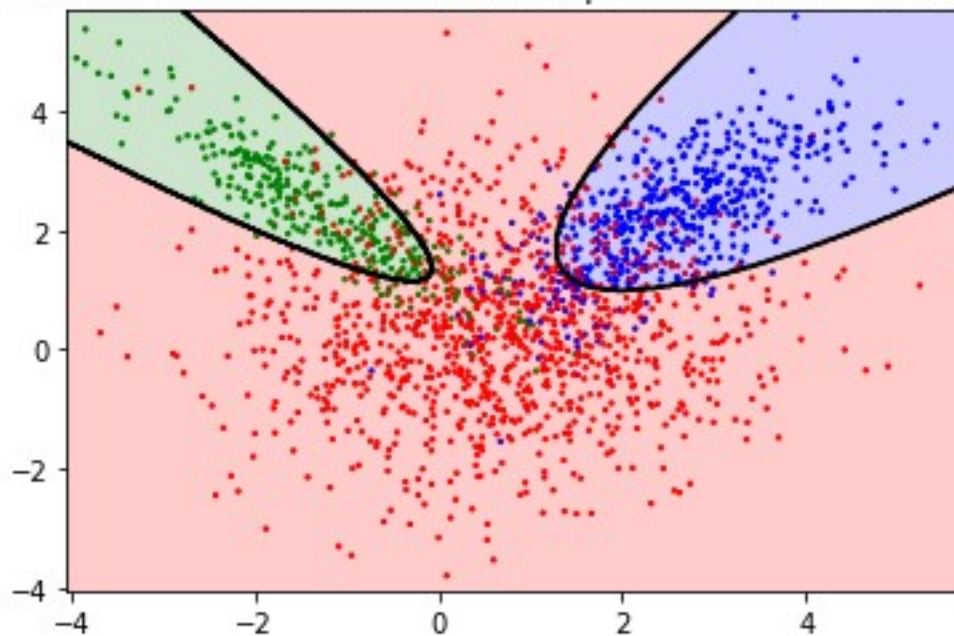
Training data for Question 2



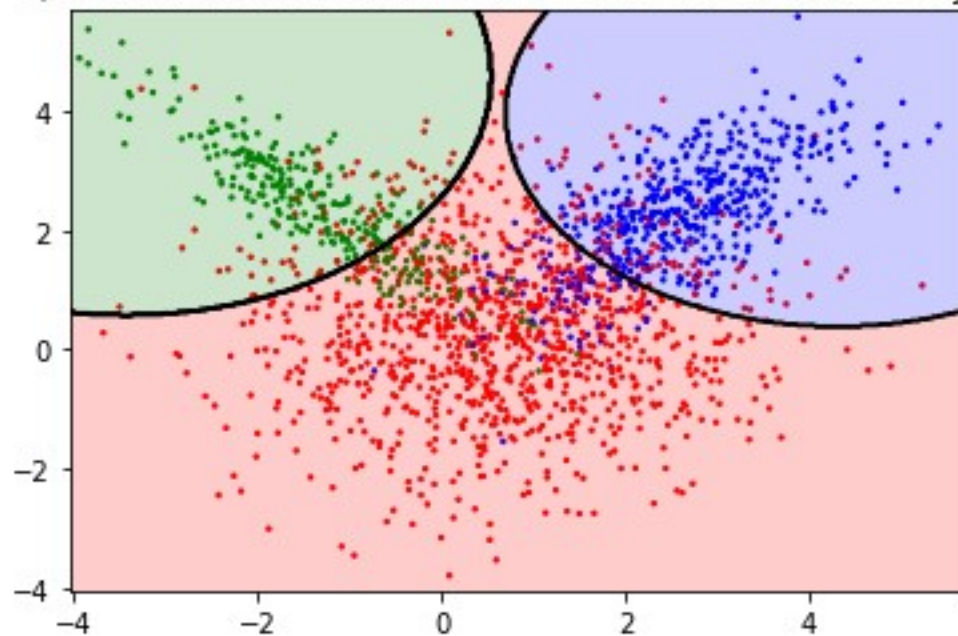
Question 2(b): decision boundaries for logistic regression



Question 2(c): decision boundaries for quadratic discriminant analysis

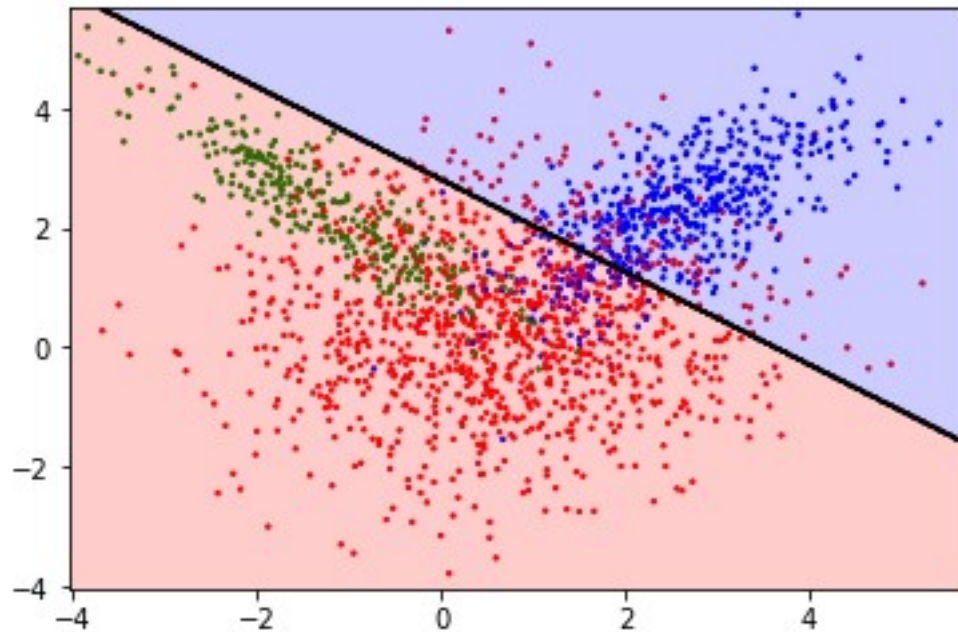


Question 2(d): decision boundaries for Gaussian naive Bayes

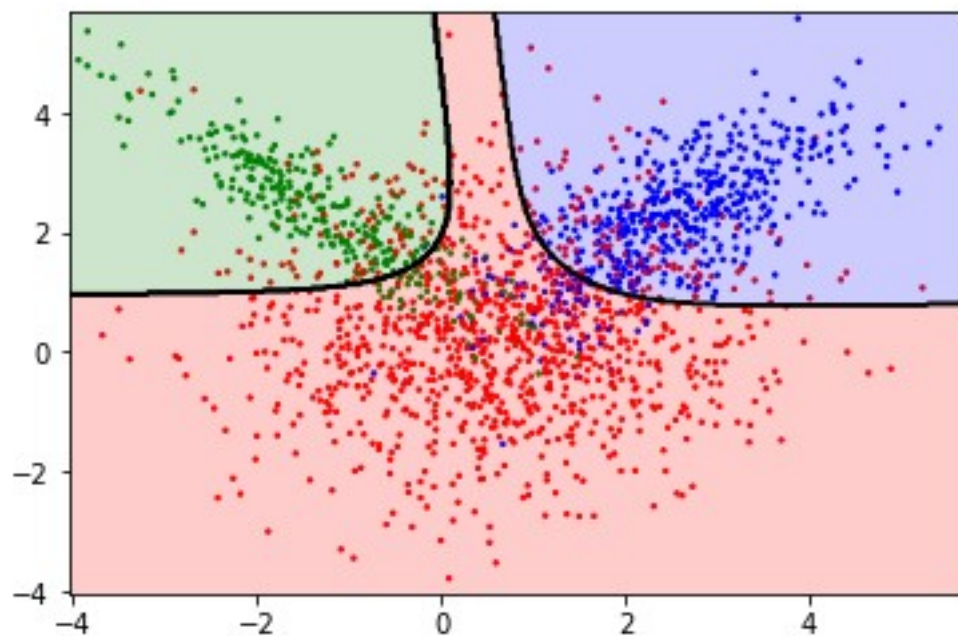


QUESTION 3

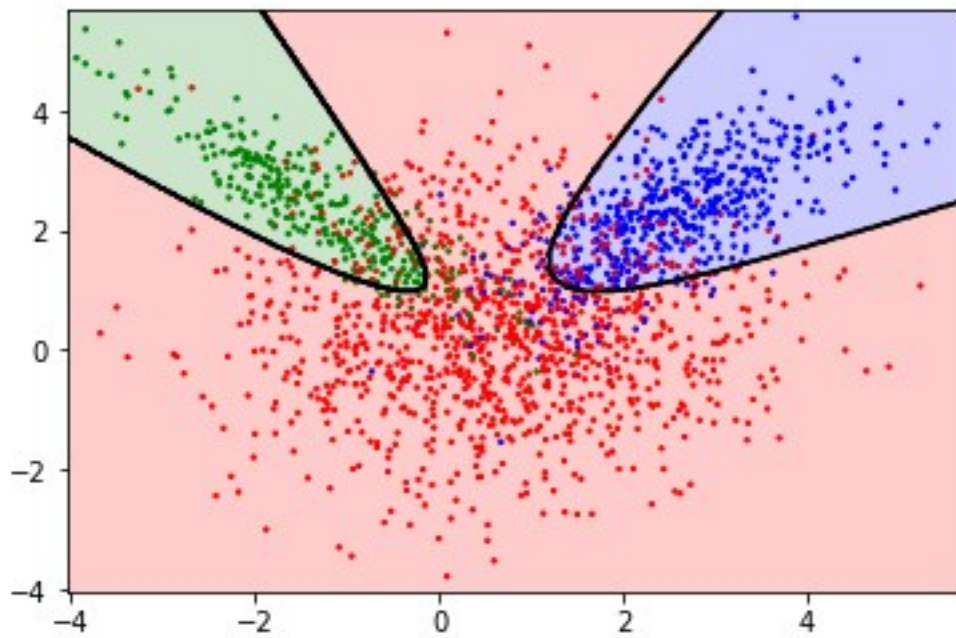
Question 3(b): Neural Net with 1 hidden unit



Question 3(c): Neural Net with 2 hidden unit



Question 3(d): Neural Net with 9 hidden unit



Parts(e) and (f) have the correct code and plots, but was not putting it onto one plot!

-- Please un comment the code and mark it, as I commented it to avoid printing 12 points each time.

QUESTION 5

