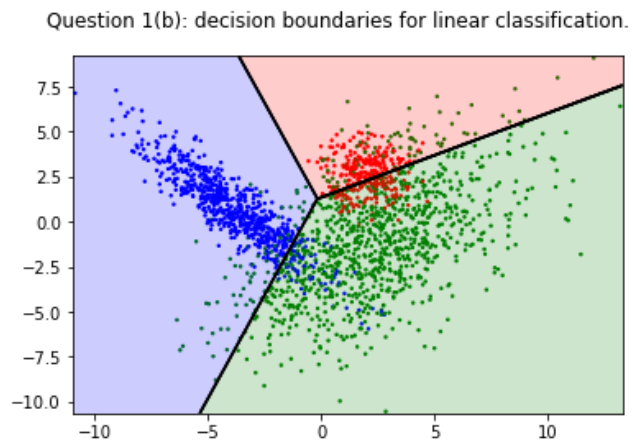


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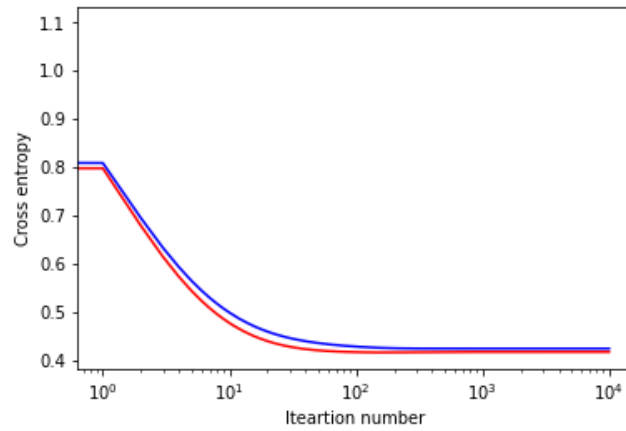
November 2021

## 1 Q1 b

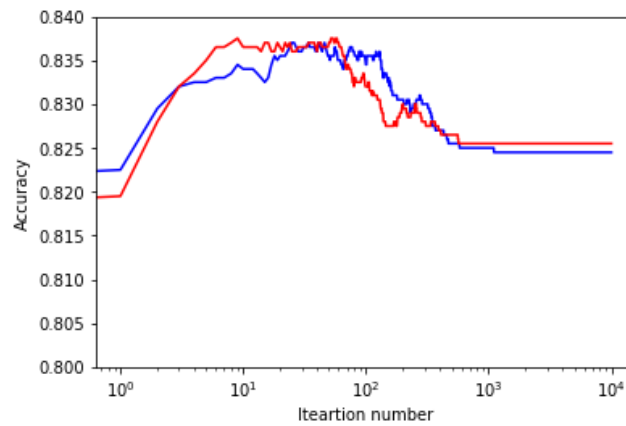


## 2 Q2 a

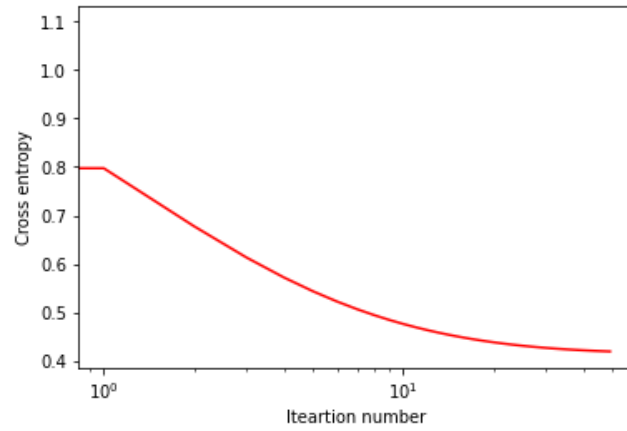
Question 2(a): Training and test loss v.s. iterations.



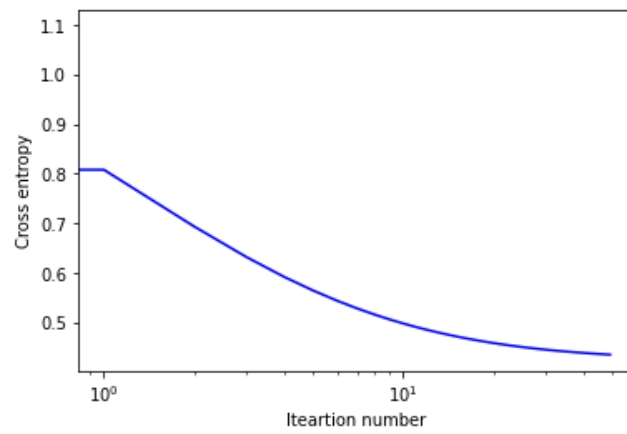
Question 2(a): Training and test accuracy v.s. iterations.



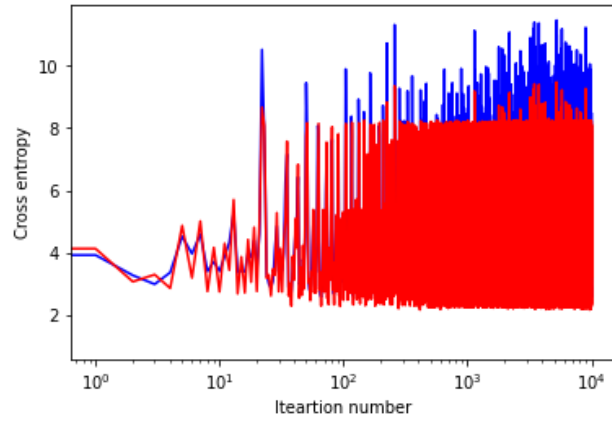
Question 2(a): test loss from iteration 50 on.



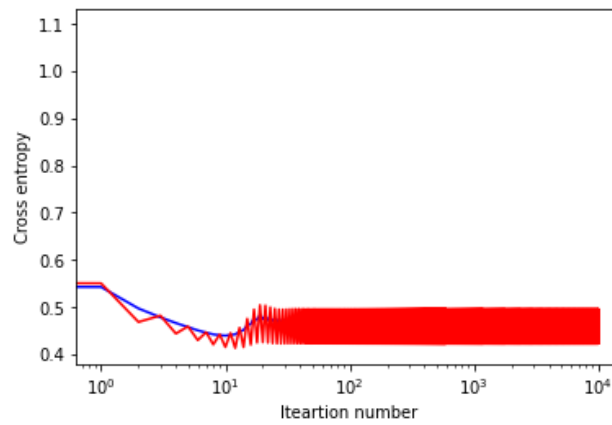
Question 2(a): train loss from iteration 50 on.



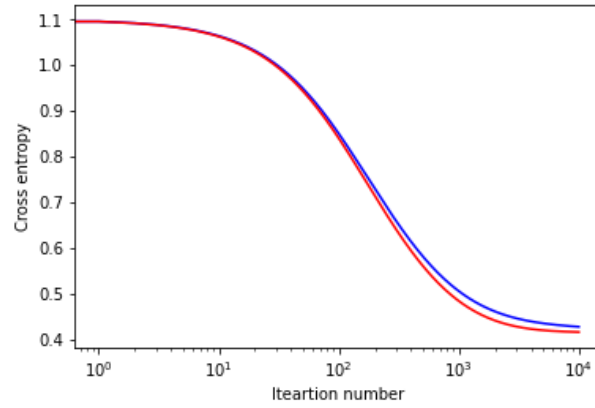
Question 2(a): Training and test loss v.s. iterations,  $\text{lr} = 10$ .



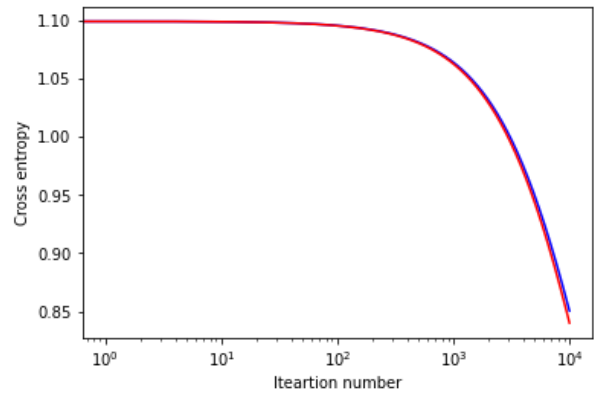
Question 2(a): Training and test loss v.s. iterations,  $\text{lr} = 1$ .



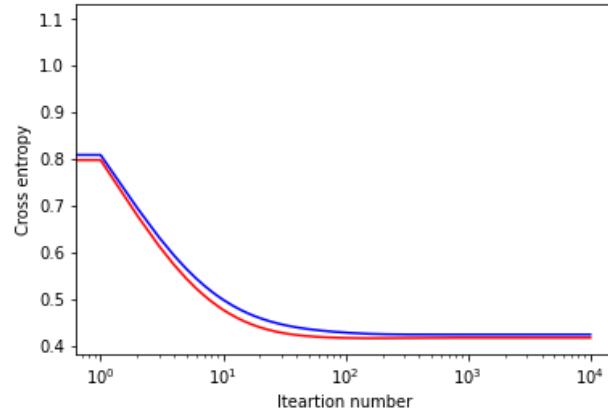
Question 2(a): Training and test loss v.s. iterations,  $\text{lr} = 0.001$ .



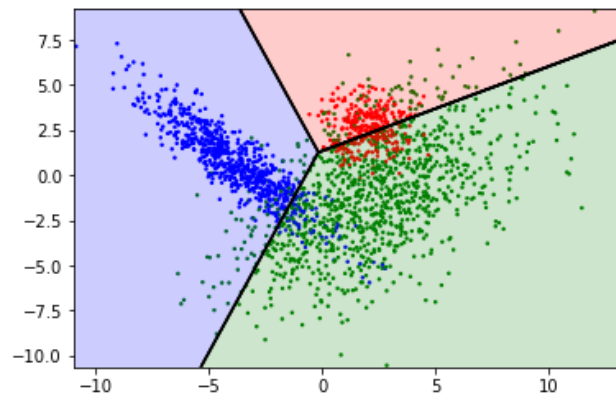
Question 2(a): Training and test loss v.s. iterations,  $\text{lr} = 0.00001$ .



Question 2(a): Training and test loss v.s. iterations,  $\text{lr} = 0.1$ .

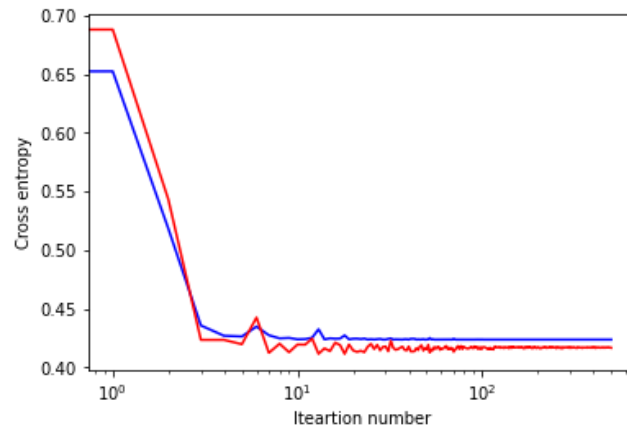


Question 2(a): decision boundaries for linear classification.

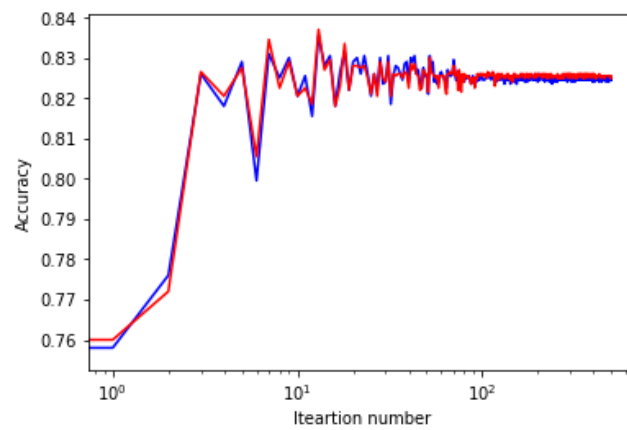


### 3 Q2 d

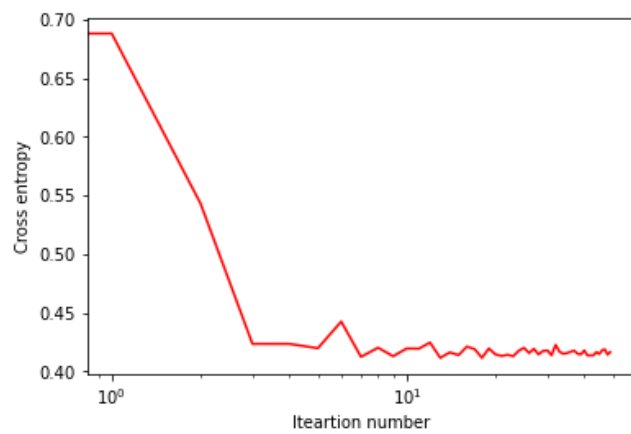
Question 2(d): Training and test loss v.s. iterations.



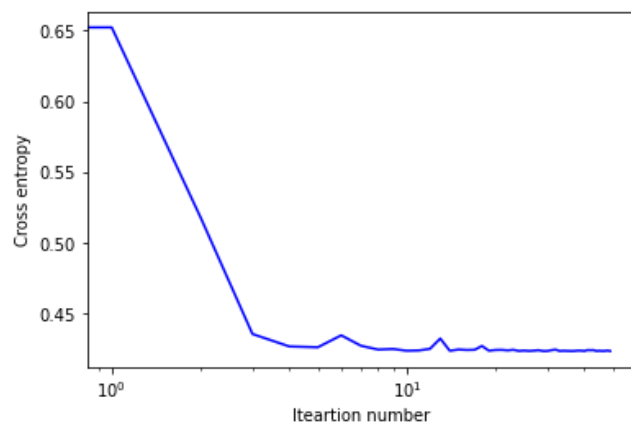
Question 2(d): Training and test accuracy v.s. iterations.



Question 2(d): test loss from iteration 50 on.

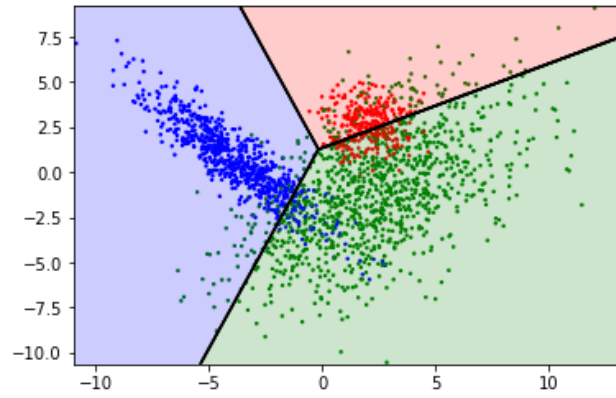


Question 2(d): train loss from iteration 50 on.



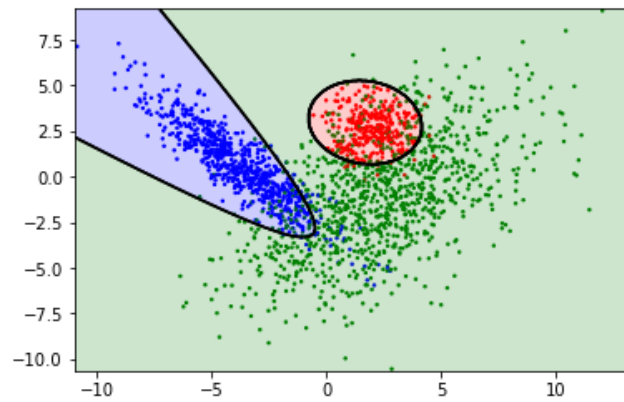


Question 2(d): decision boundaries for linear classification.

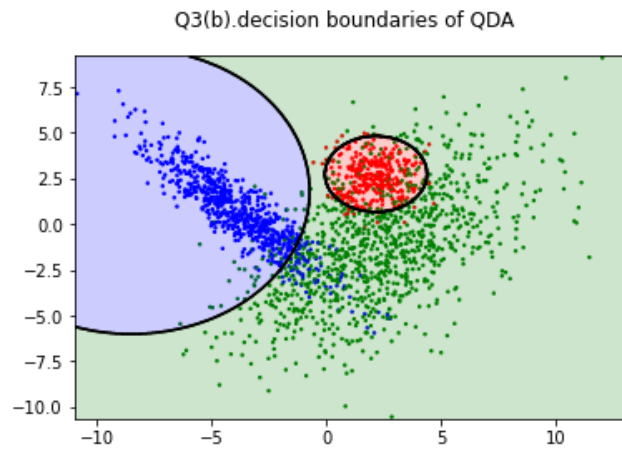


4 Q3,a

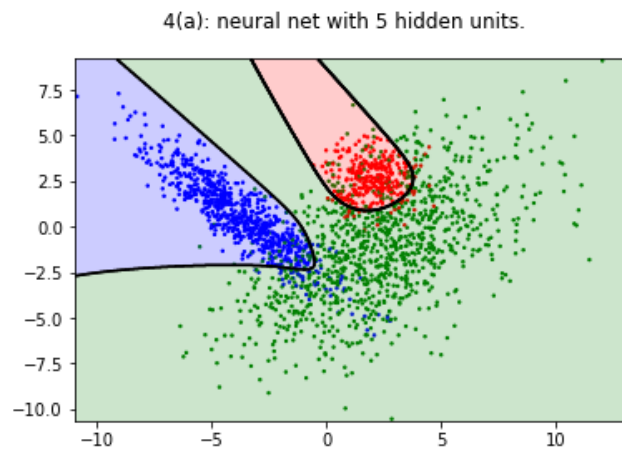
Q3(a).decision boundaries of QDA



## 5 Q3,b



## 6 Q4,1



## 7 Q4,b

