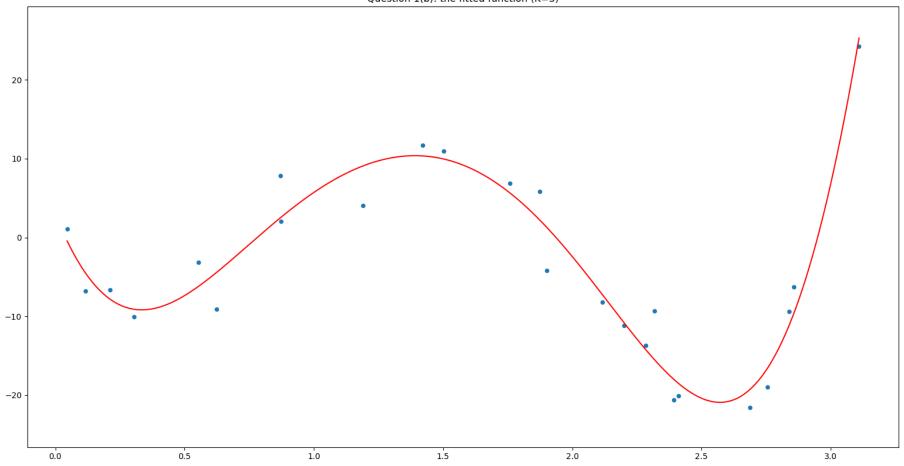
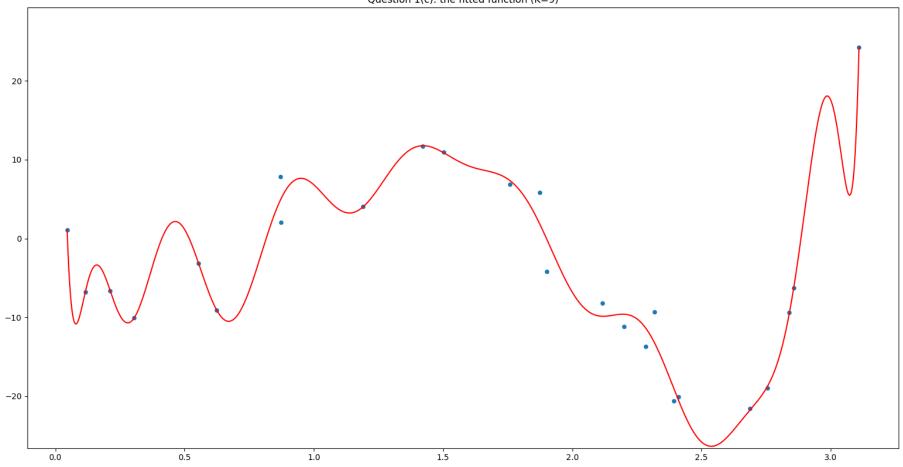
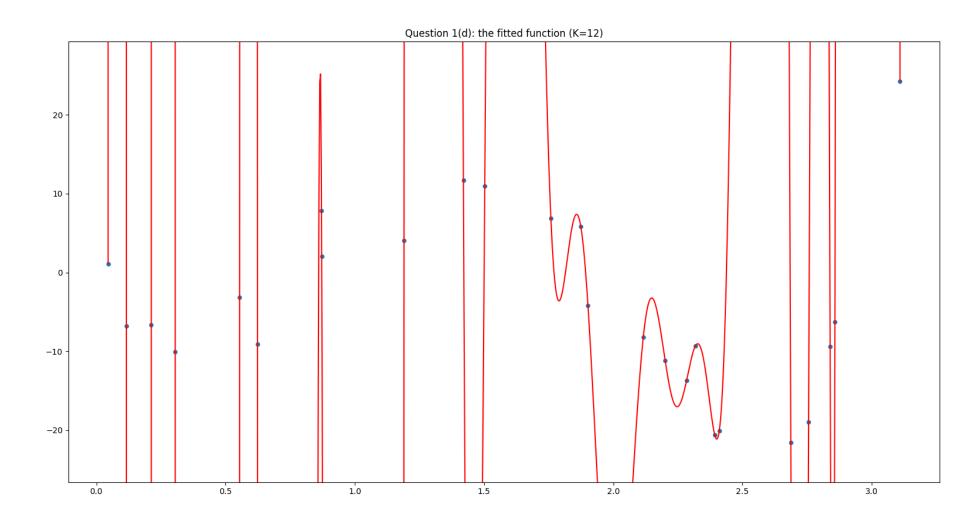
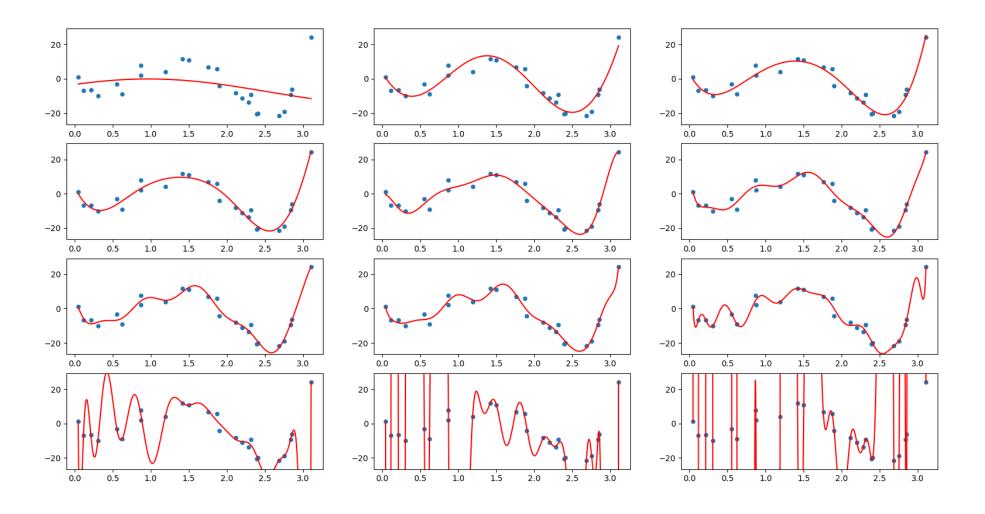
Question 1(b): the fitted function (K=3)

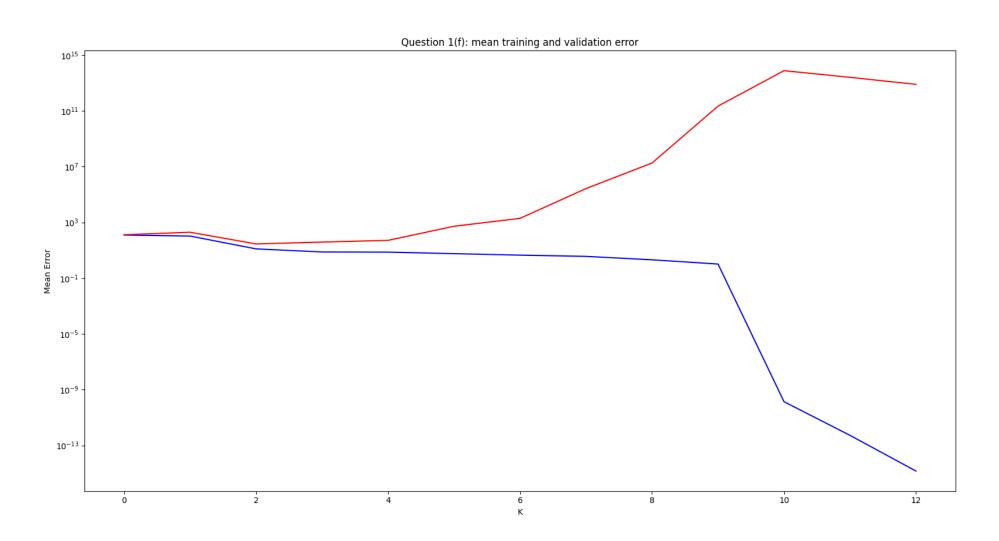


Question 1(c): the fitted function (K=9)

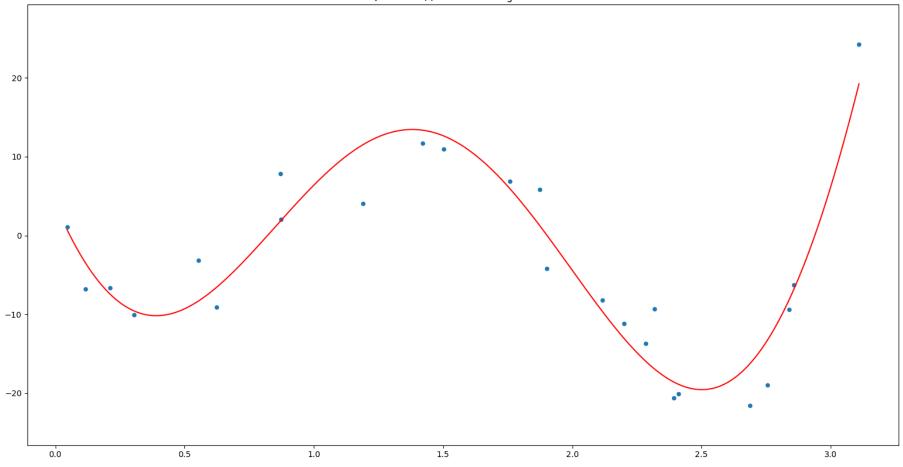


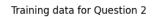


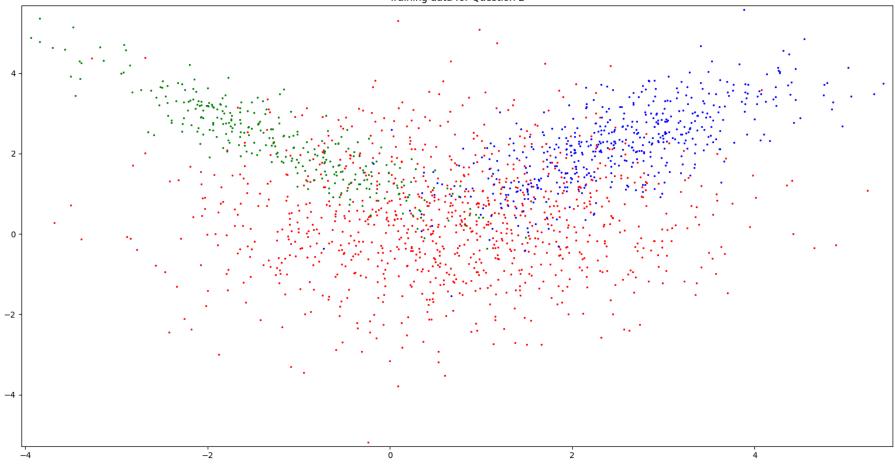




Question 1(f): the best fitting function

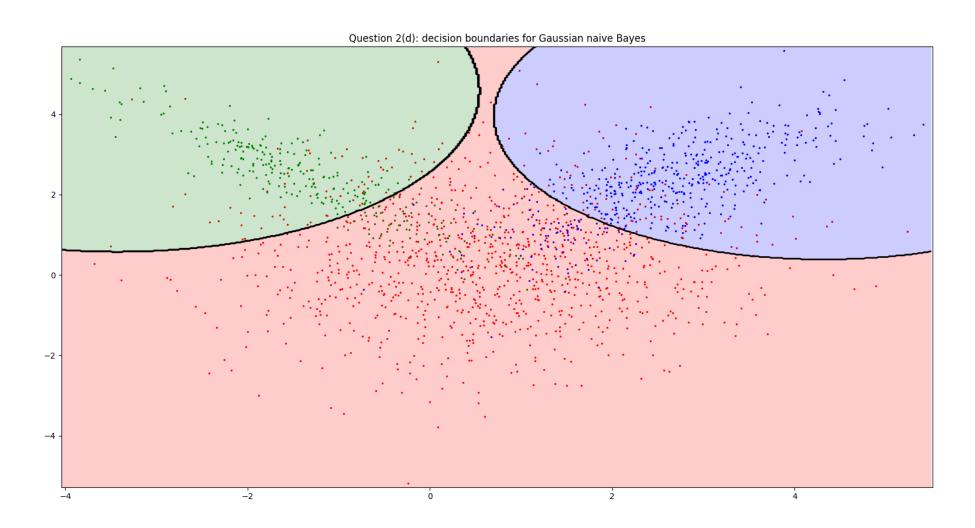




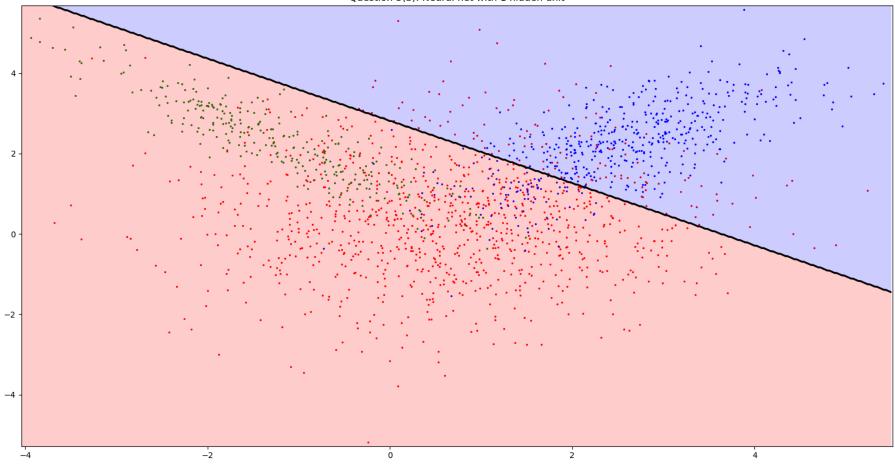


Question 2(b): decision boundaries for logistic regression

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

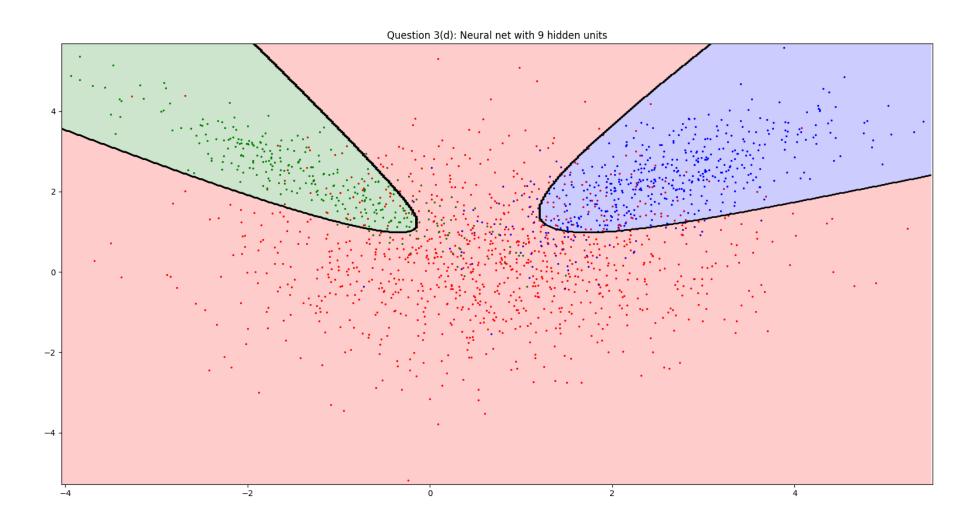


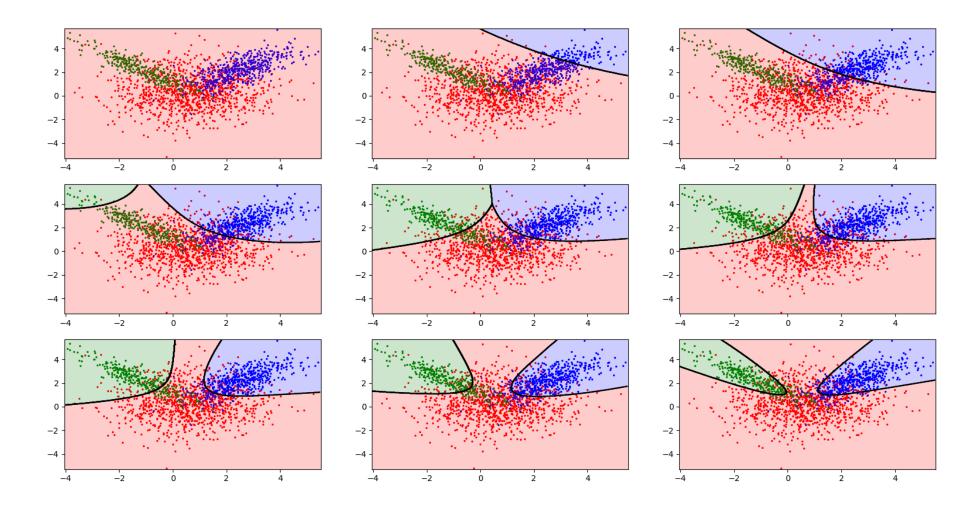
Question 3(b): Neural net with 1 hidden unit

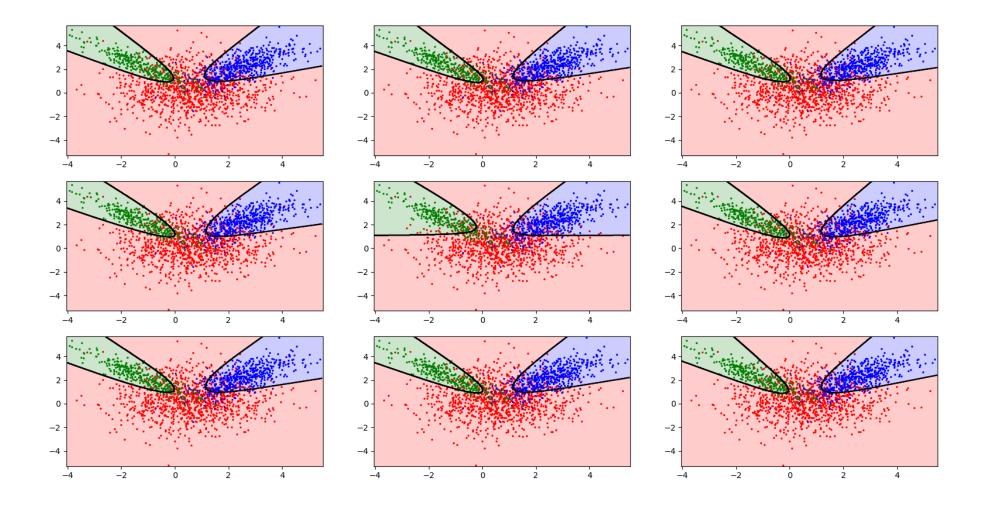


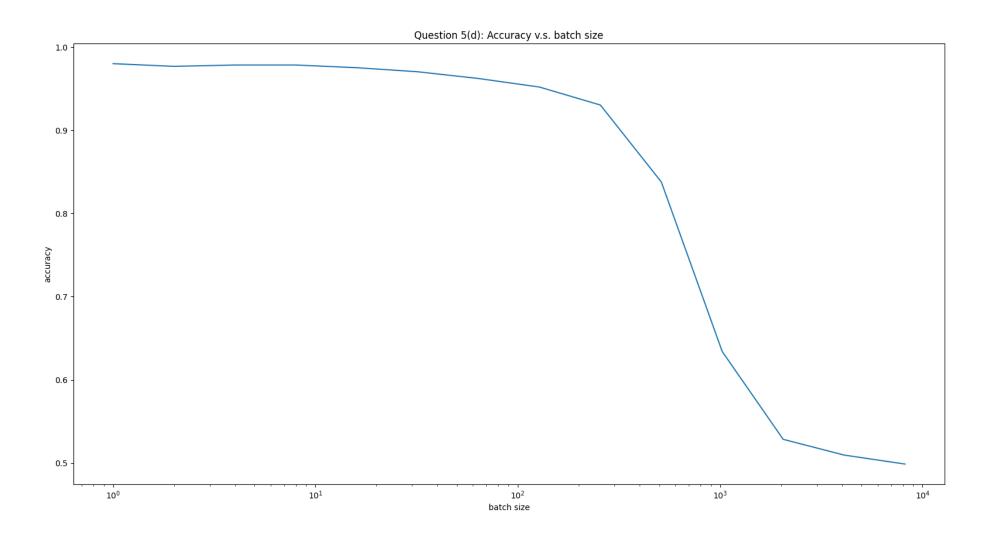
Question 3(c): Neural net with 2 hidden units

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Question 5(d): Cross entropy v.s. batch size 0.7 0.6 0.5 cross entropy 0.3 0.2 -0.1 10³ 10² batch size 10¹ 10⁰ 10⁴