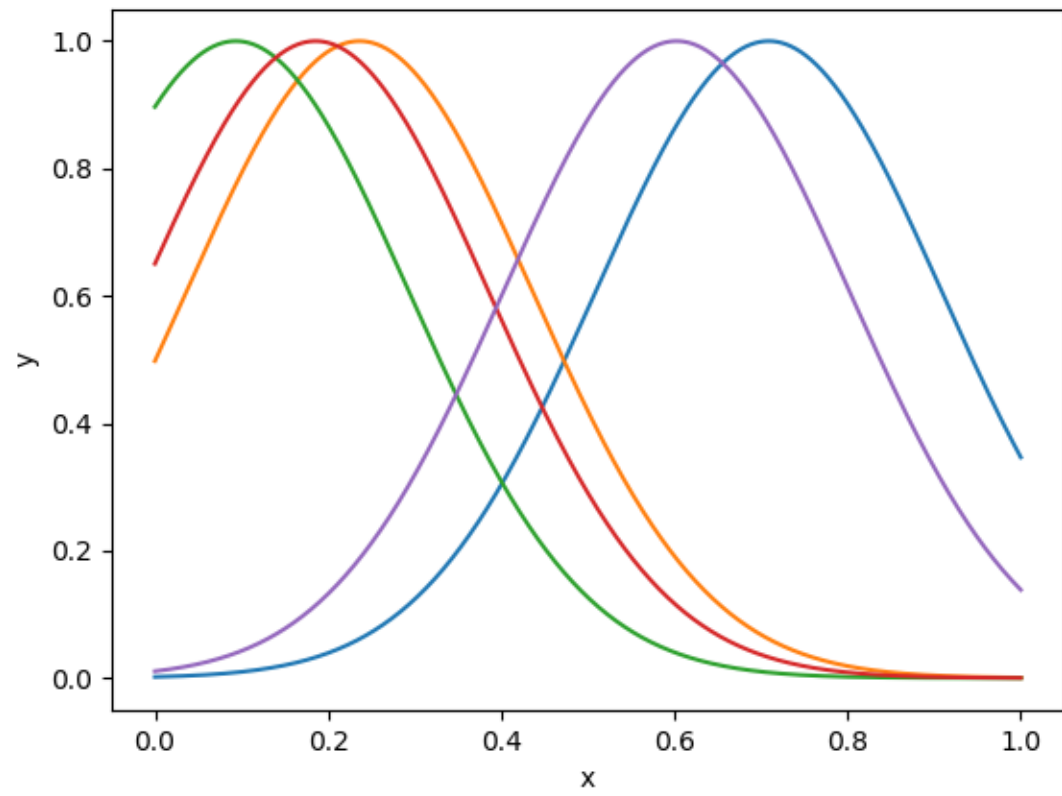
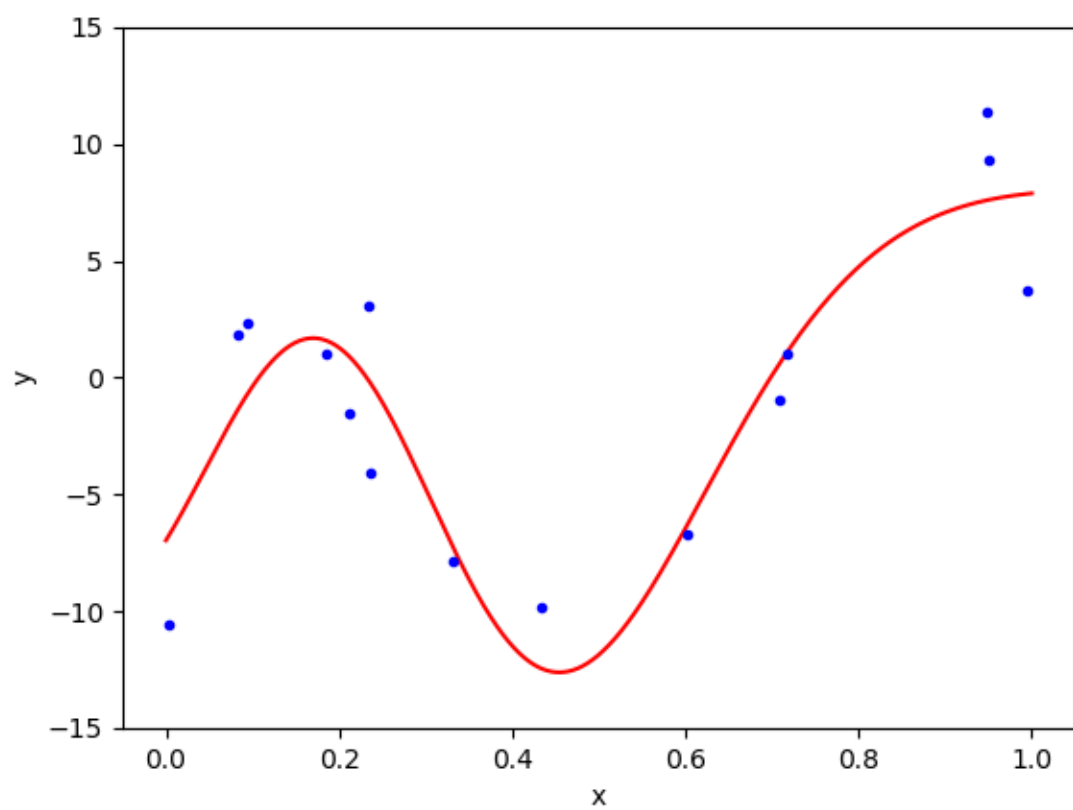


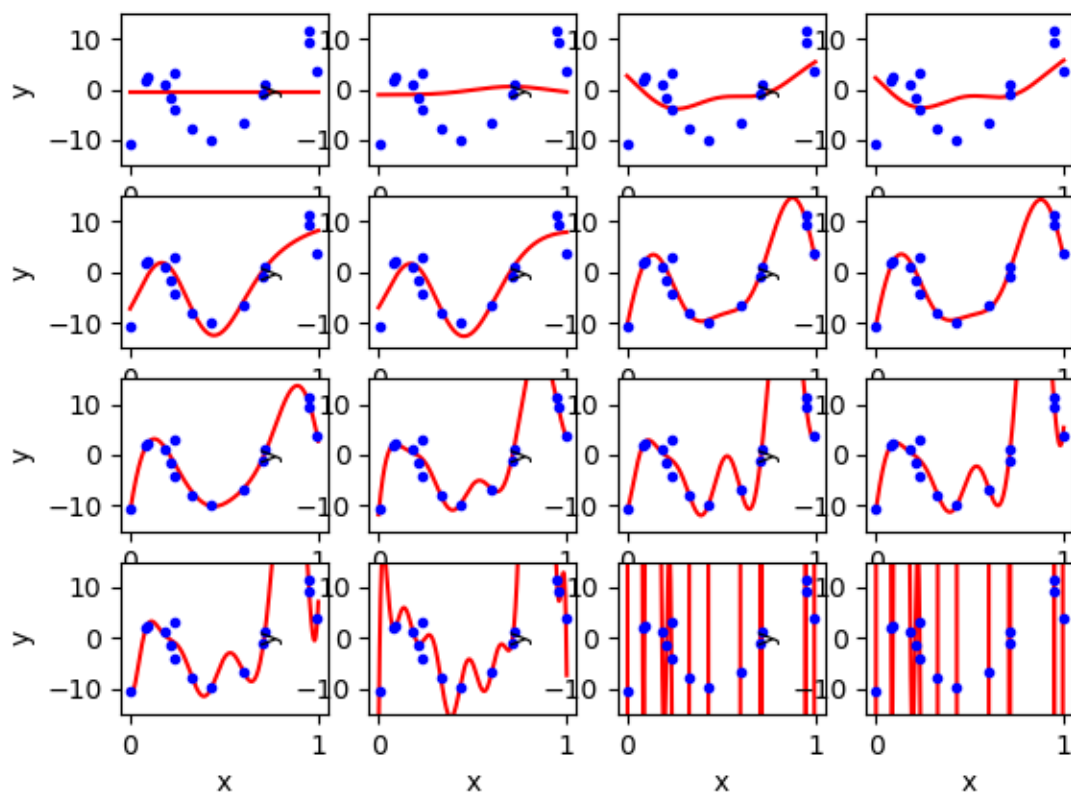
Question 4(b): some basis functions with  $\sigma = 0.2$



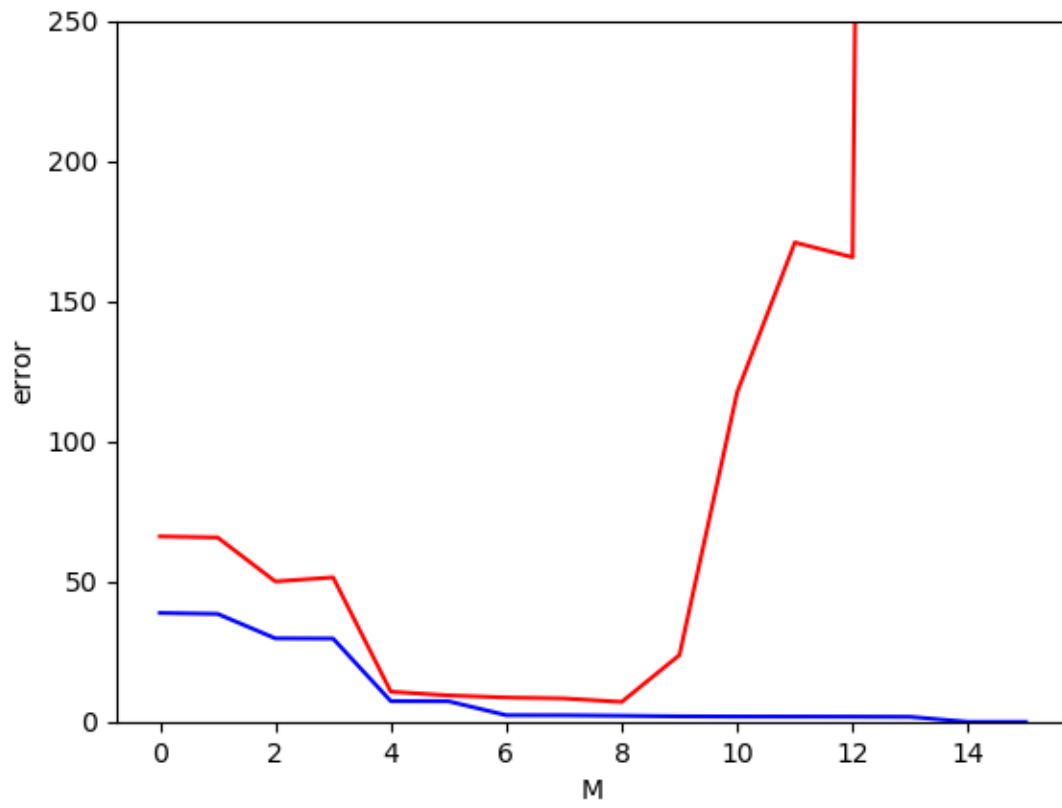
Question 4(e): the fitted function (5 basis functions)



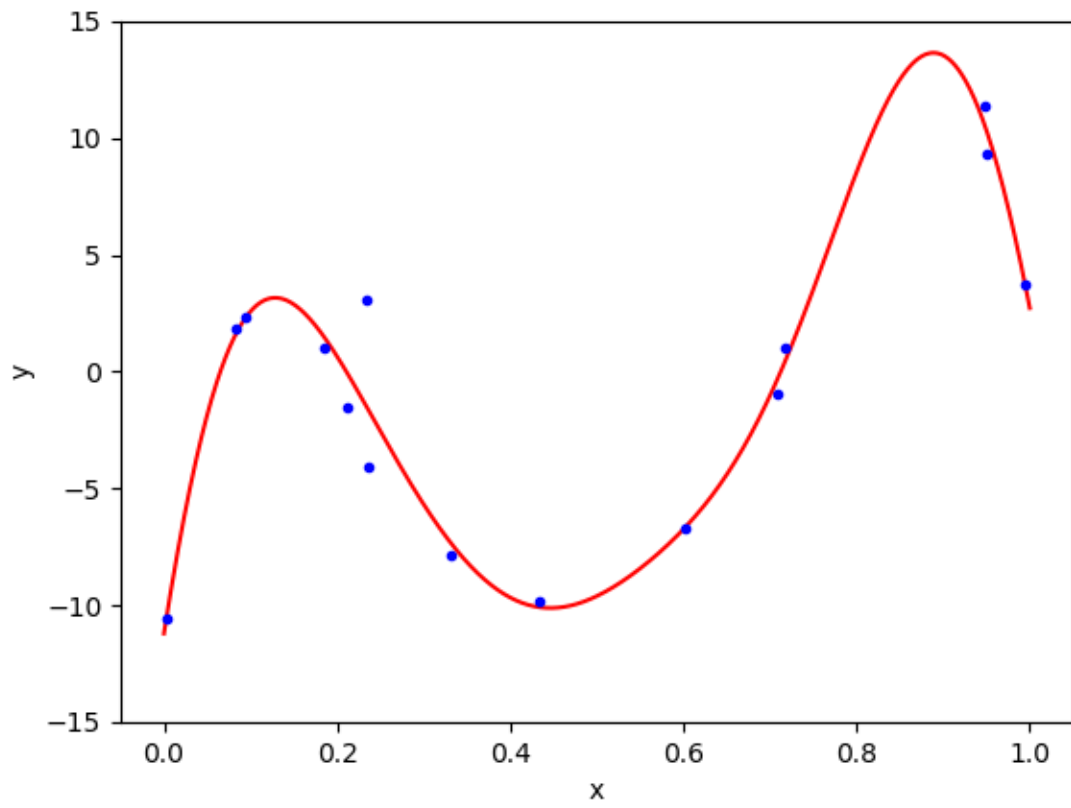
Question 4(f): best-fitting functions with 0-15 basis functions



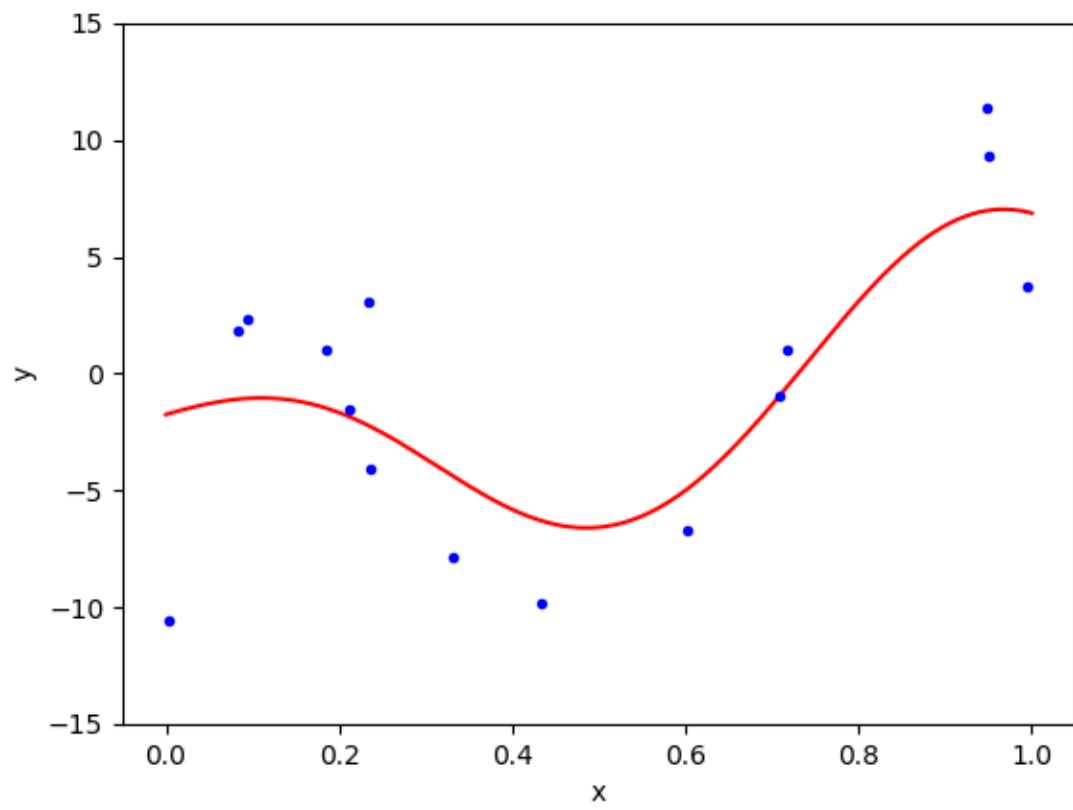
Question 4(f): training and test error



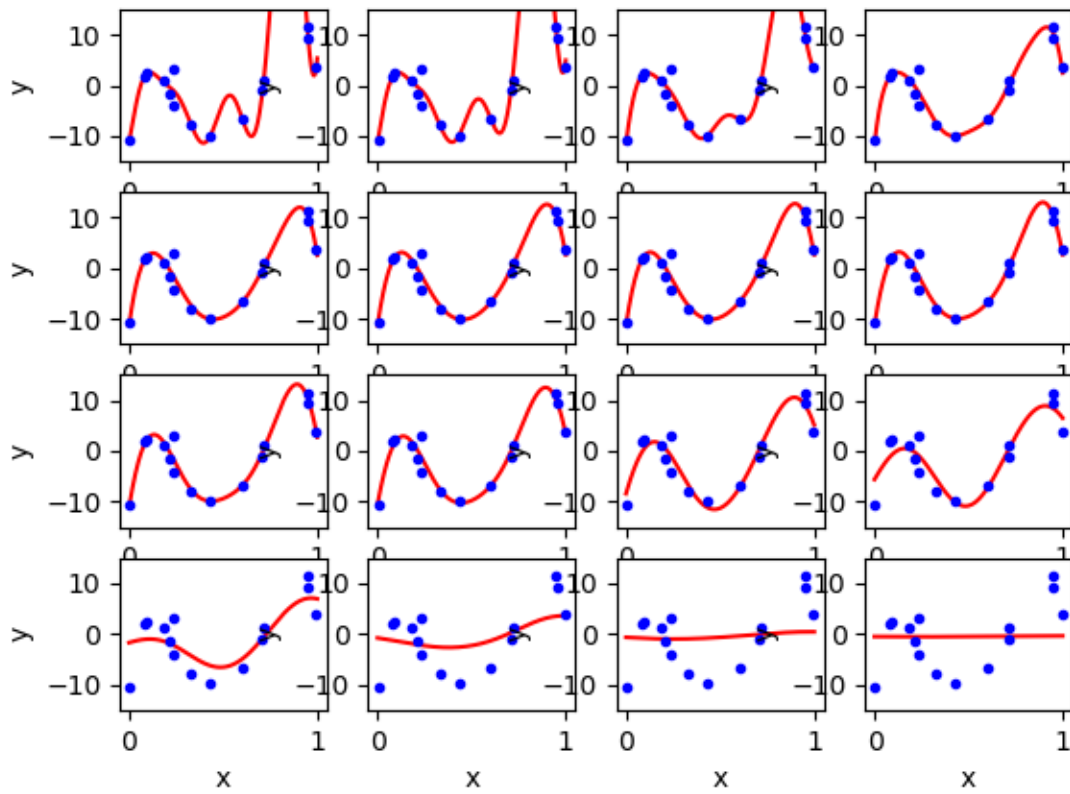
Question 4(f): best-fitting function (8 basis functions)



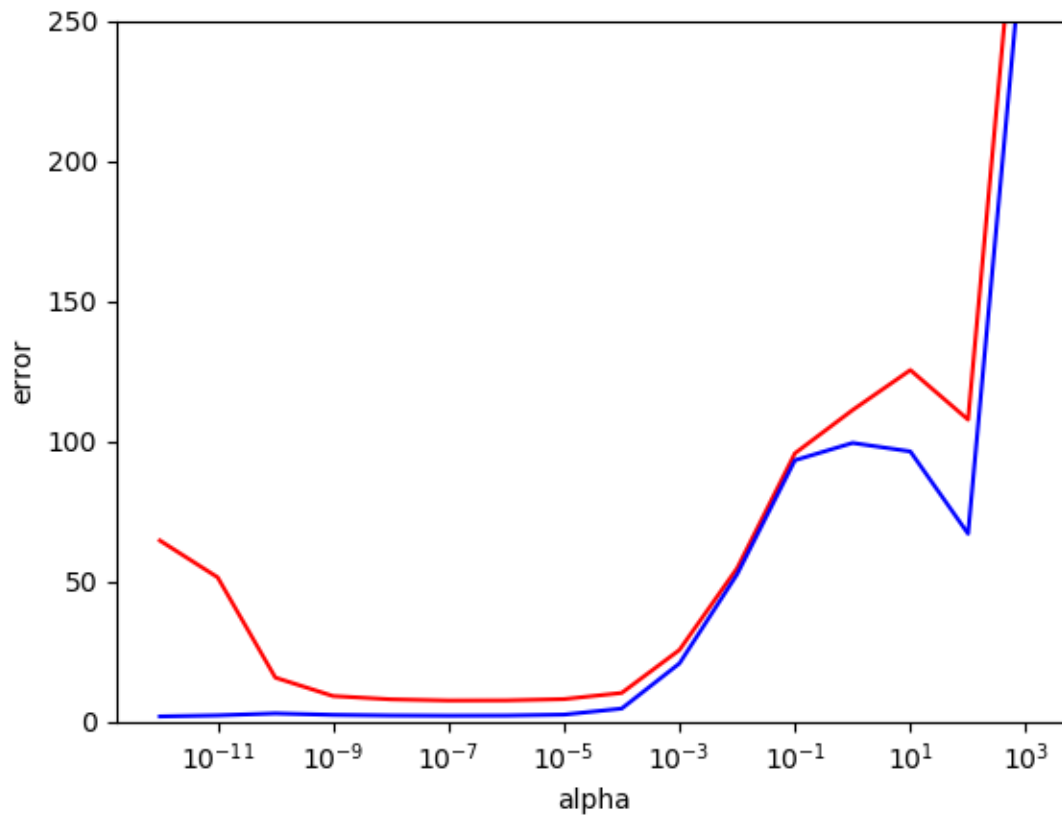
Question 5(b): the fitted function (alpha=1)



Question 5(c): best-fitting functions for  $\log(\alpha) = -12, -11, \dots, 1, 2, 3$

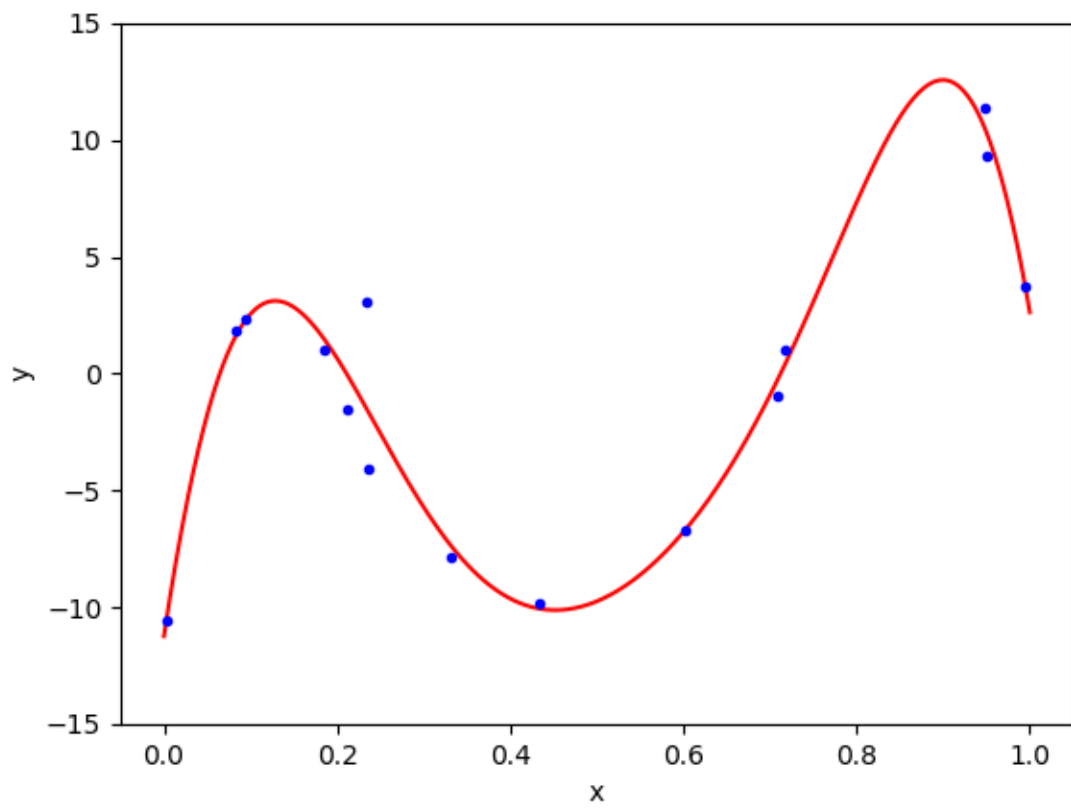


Question 5(c): training and validation error

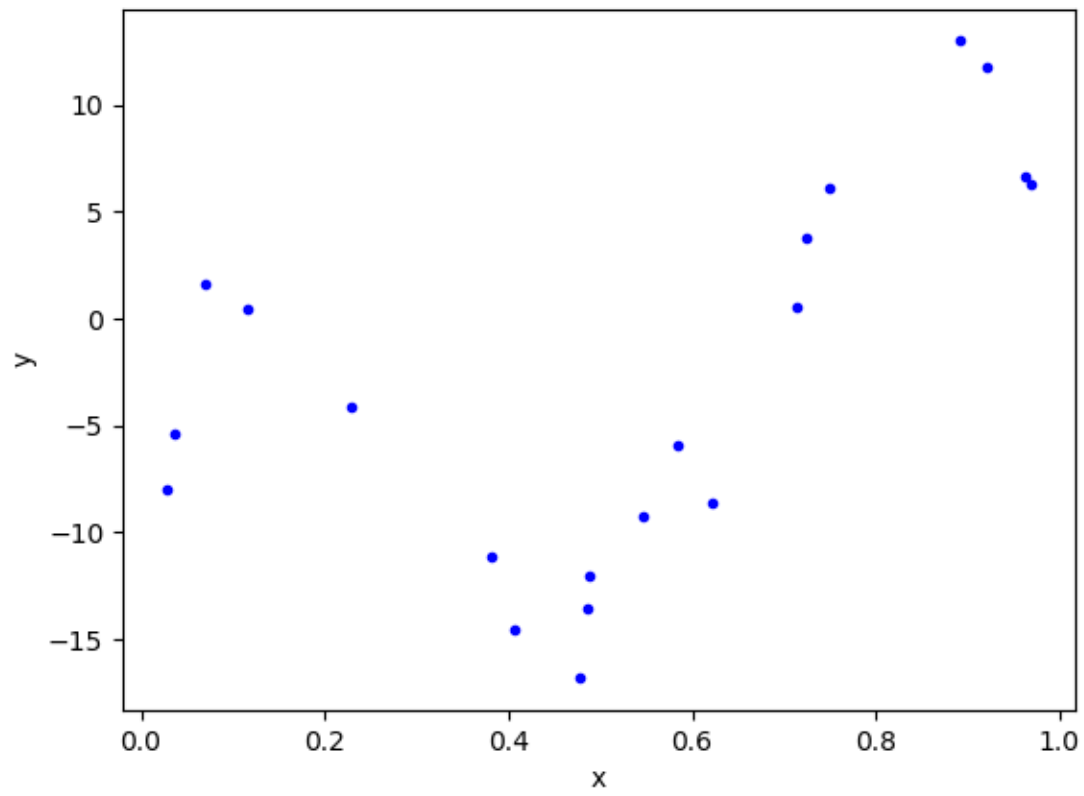




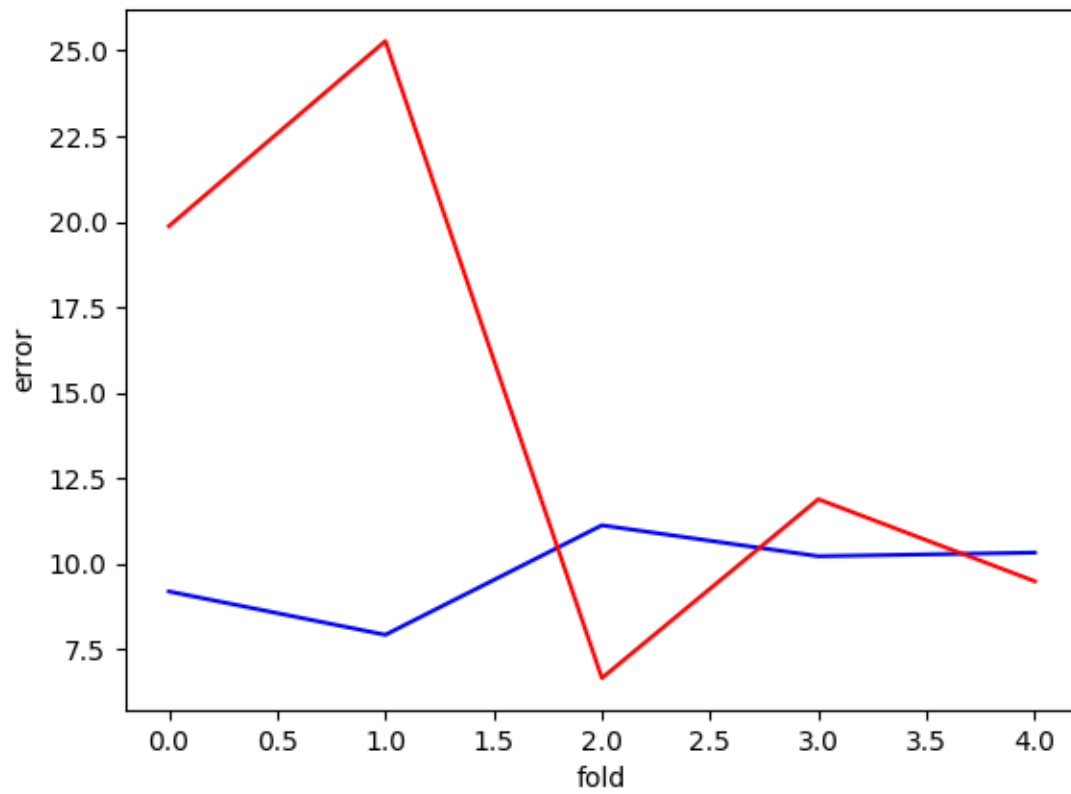
Question 5(c): best-fitting function (-6 basis functions)



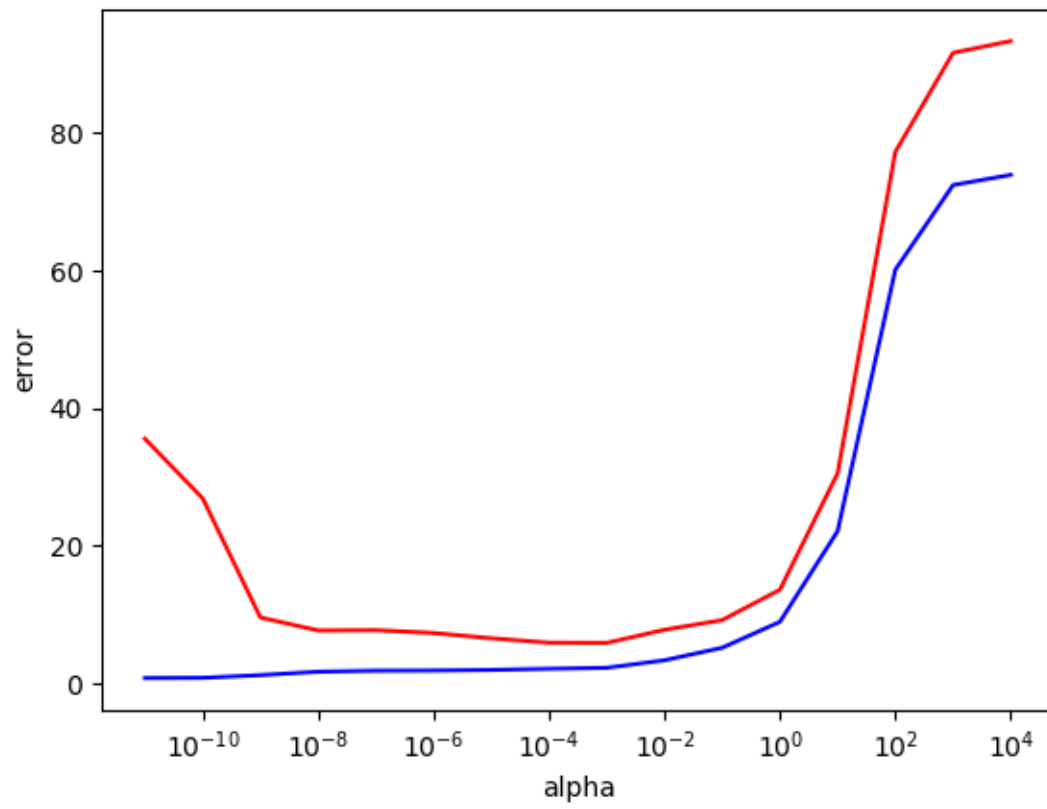
Question 6(a): Training data for Question 6



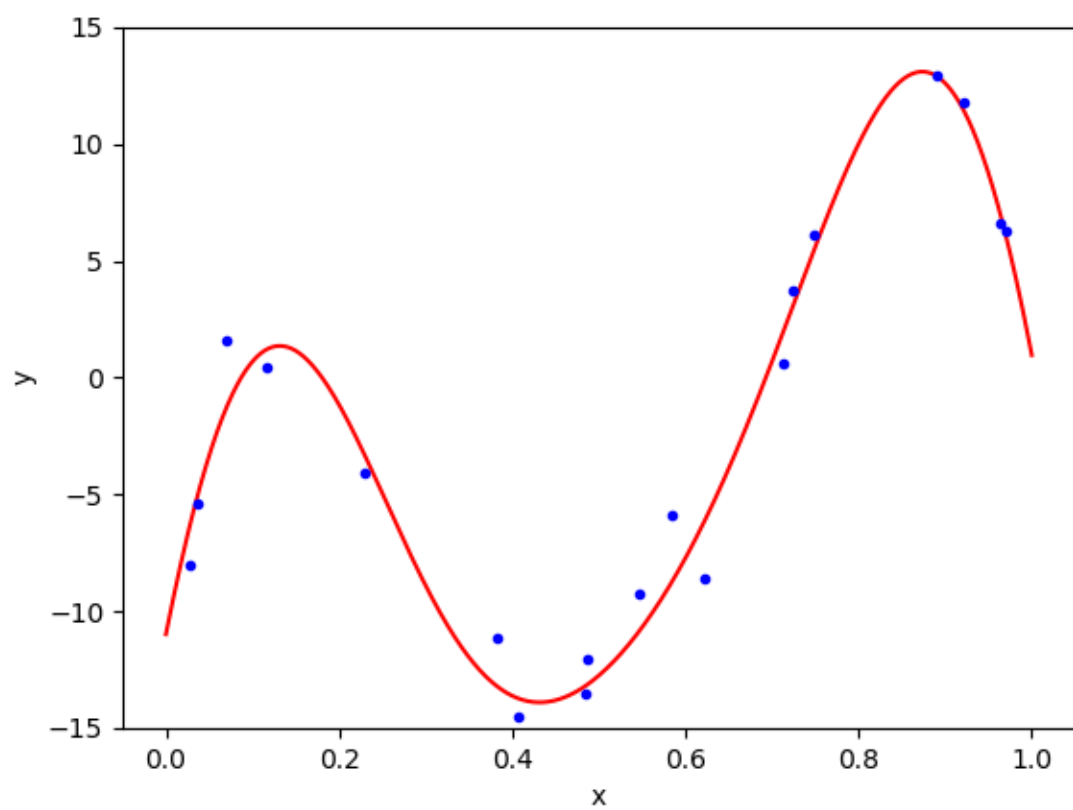
Question 6(c): training and validation errors during cross validation



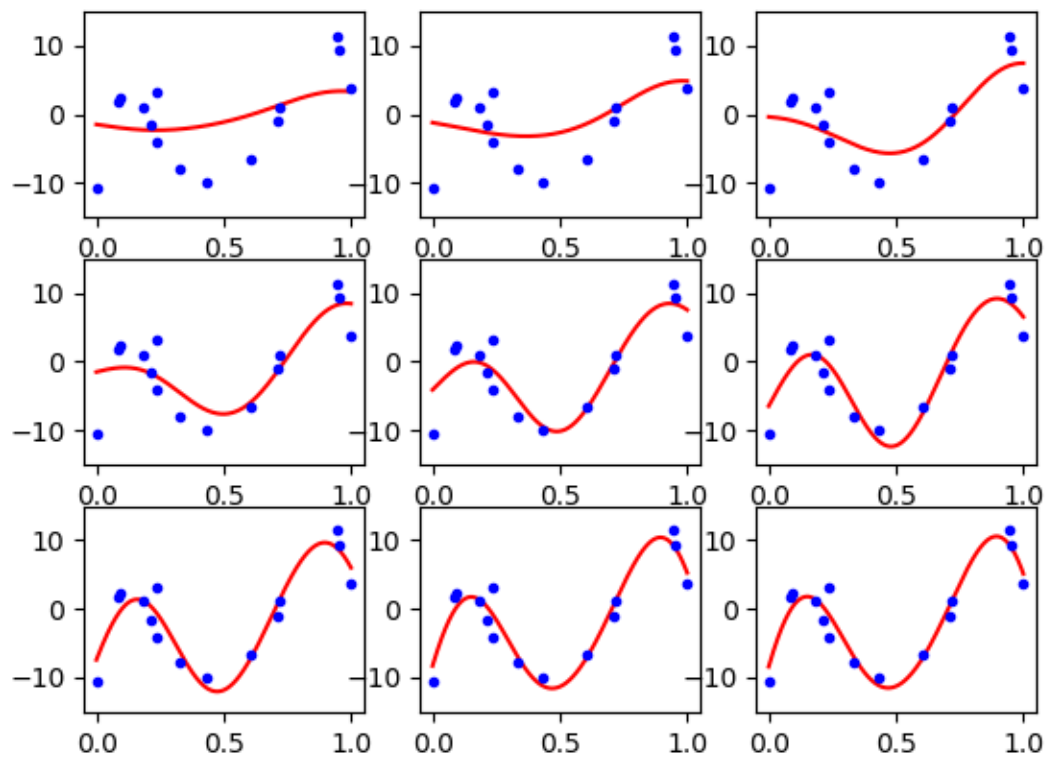
Question 6(d): training and validation error



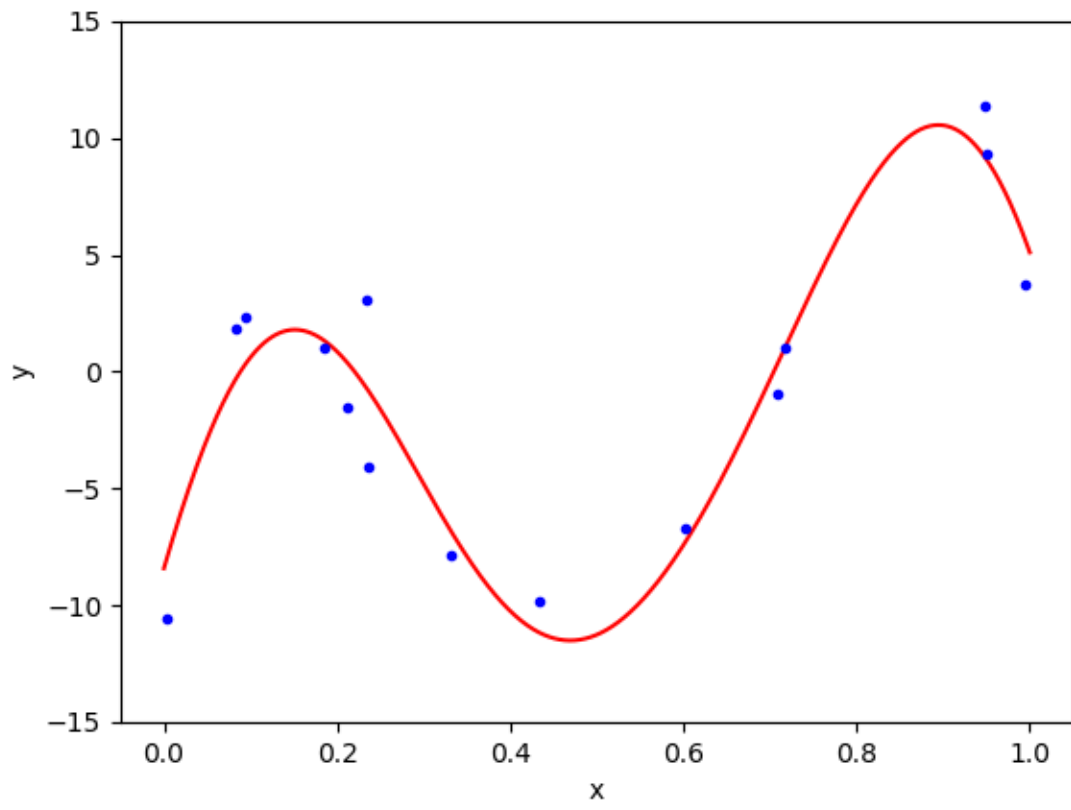
Question 6(d): best-fitting function (0.001)



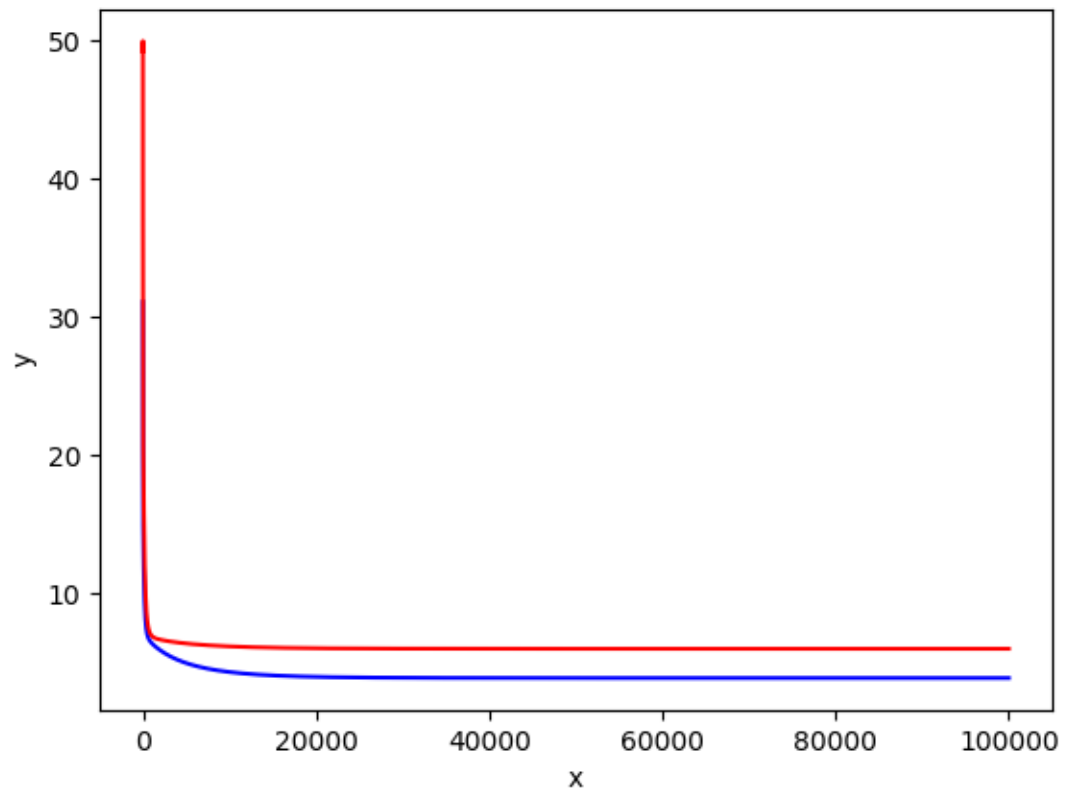
Question 7: fitted function as iterations increase



Question 7: fitted function

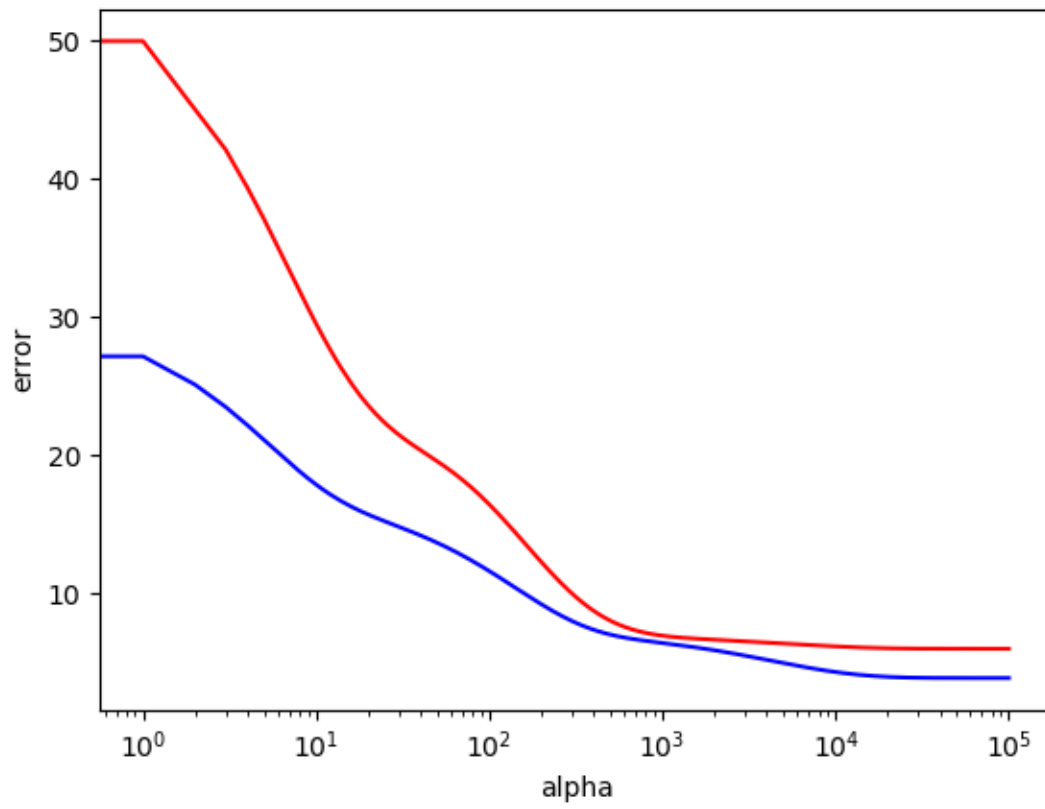


Question 7: training and test error v.s. iteration





Question 7: training and test error v.s. iterations (log scale)



Question 7: last 10,000 training errors

