Training Set

Figure 1

Training Set

Figure 2
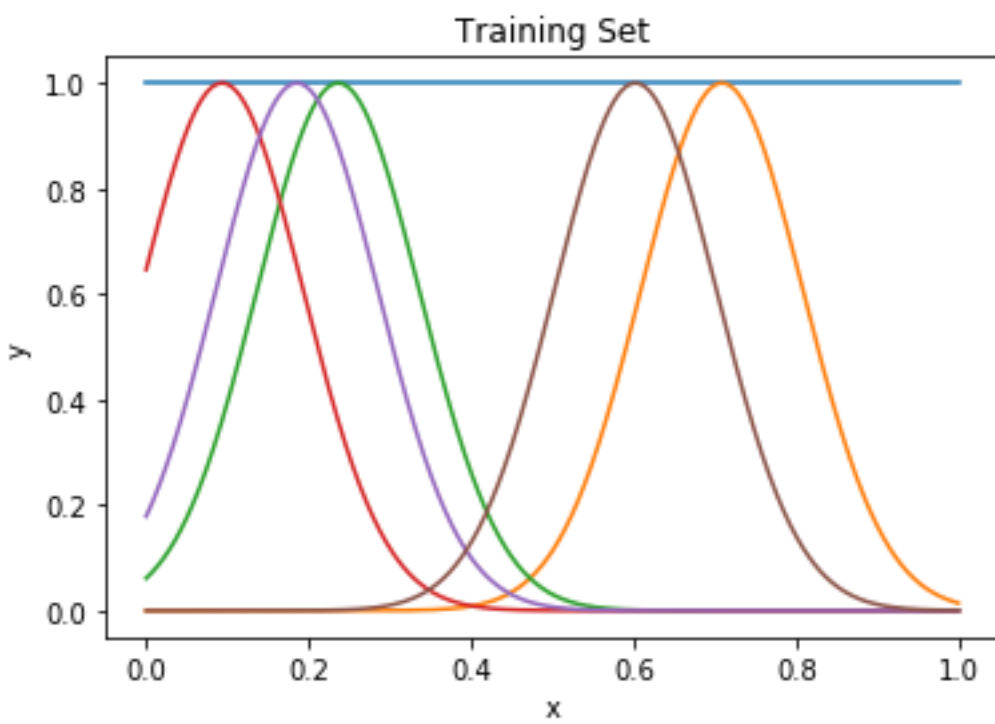
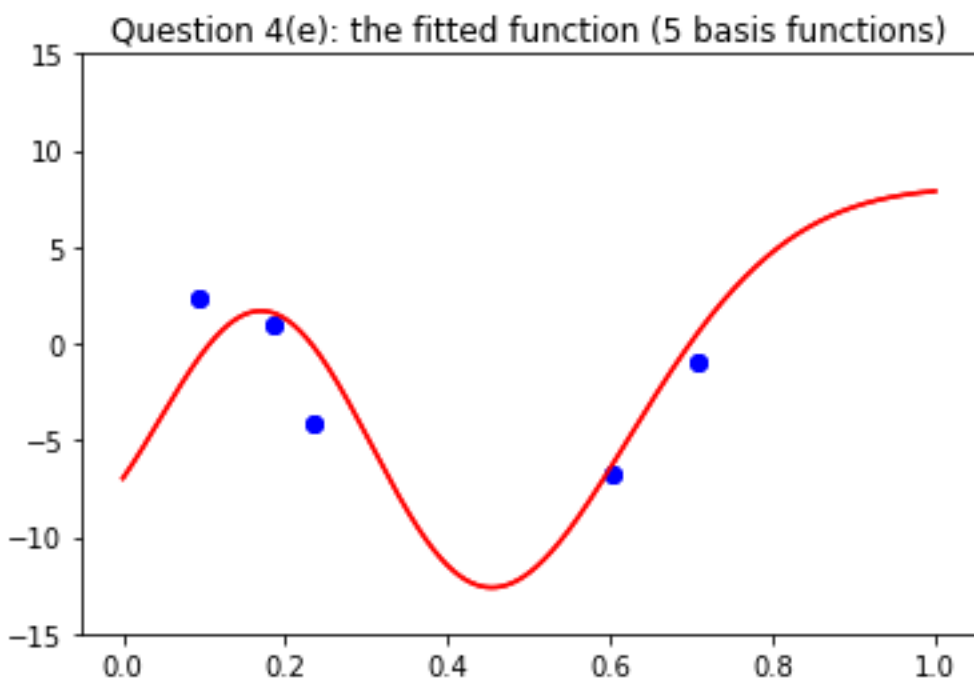## Question 4(e): the fitted function (5 basis functions)

Figure 3

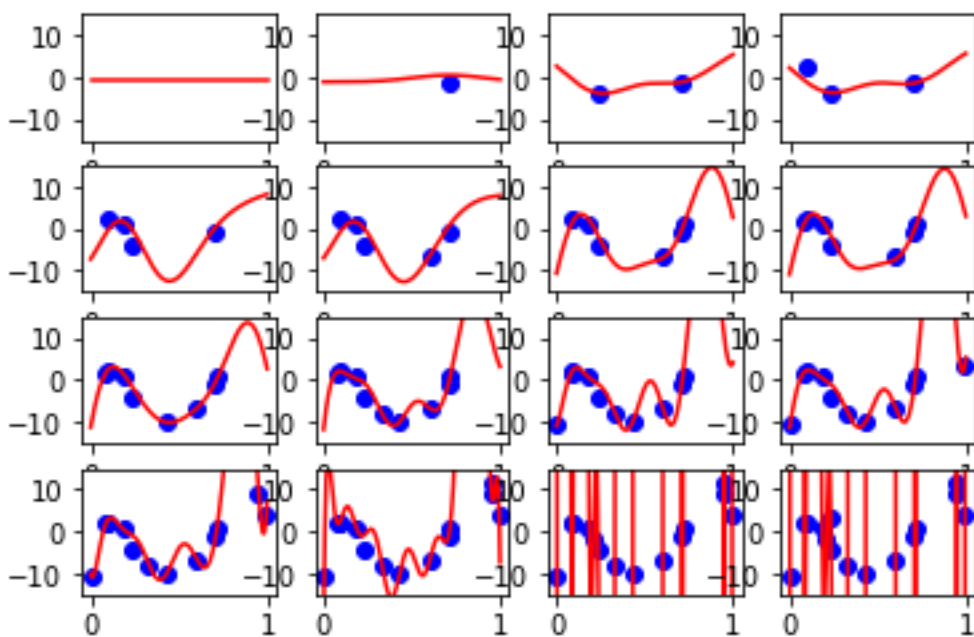## Question 4(f): best-fitting functions with 0-15 basis functions

Figure 4

Figure 5

Figure 6

Question 5(b): the fitted function (alpha=1)
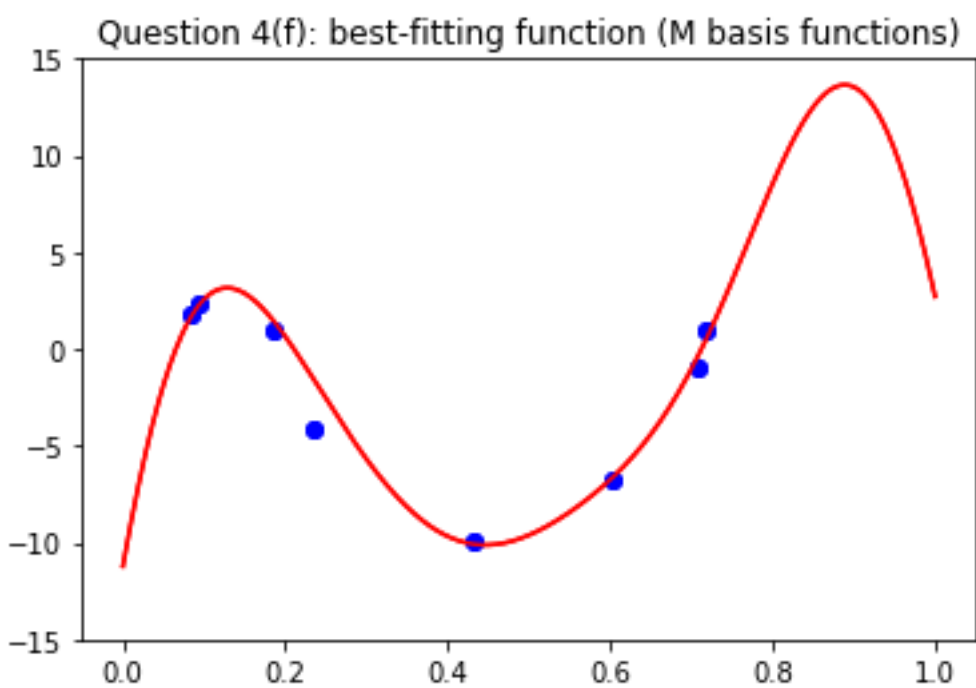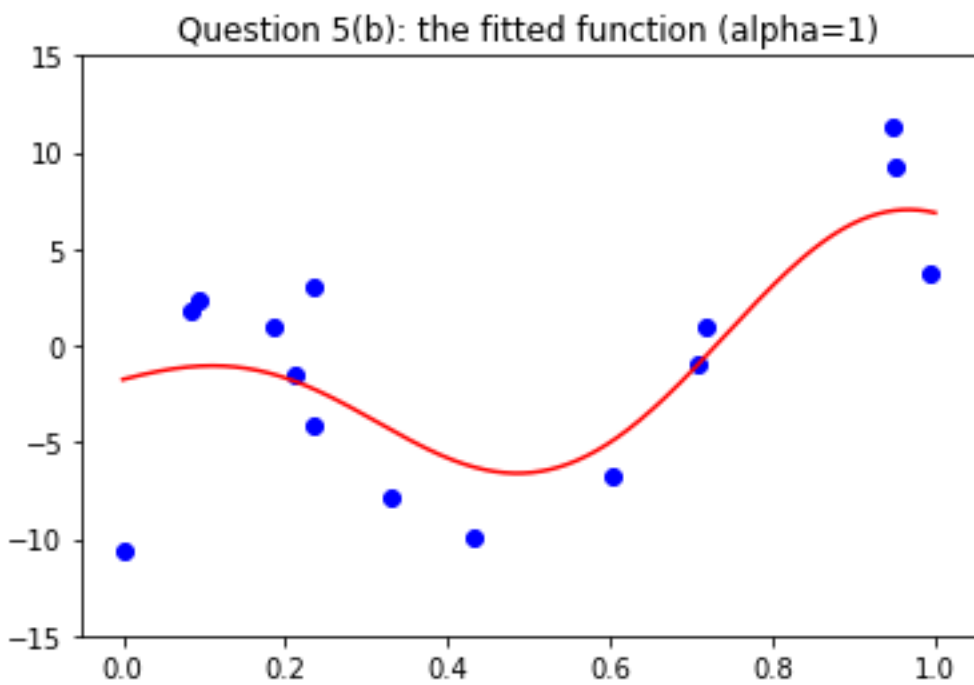
Figure 7

Question 5(c): best-fitting functions for log(alpha) = -12,-11,...,1,2,3
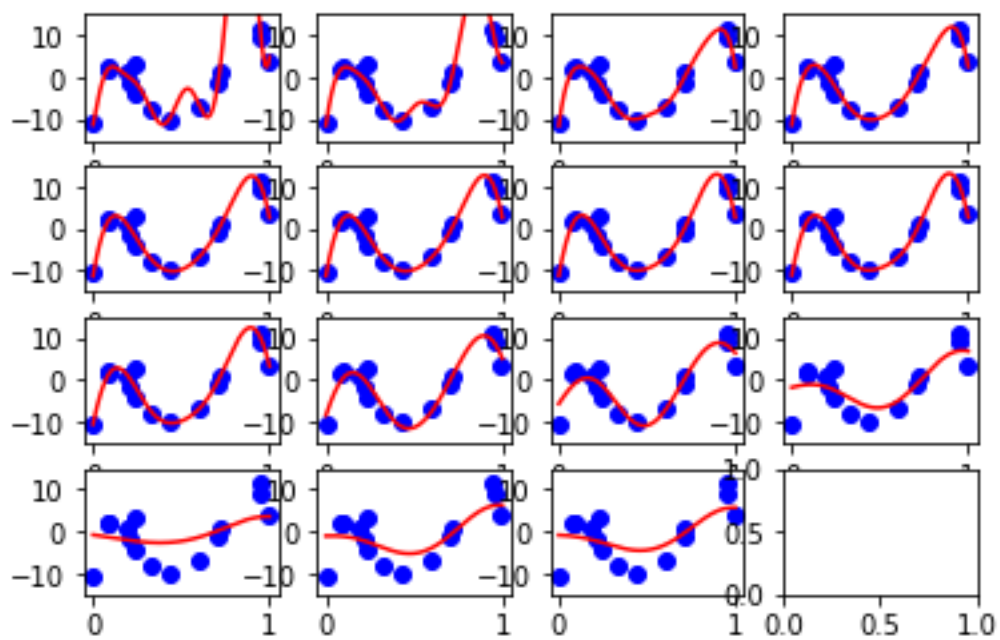
Figure 8

Figure 9

Figure 10

Question 6(a): Training data for Question 6
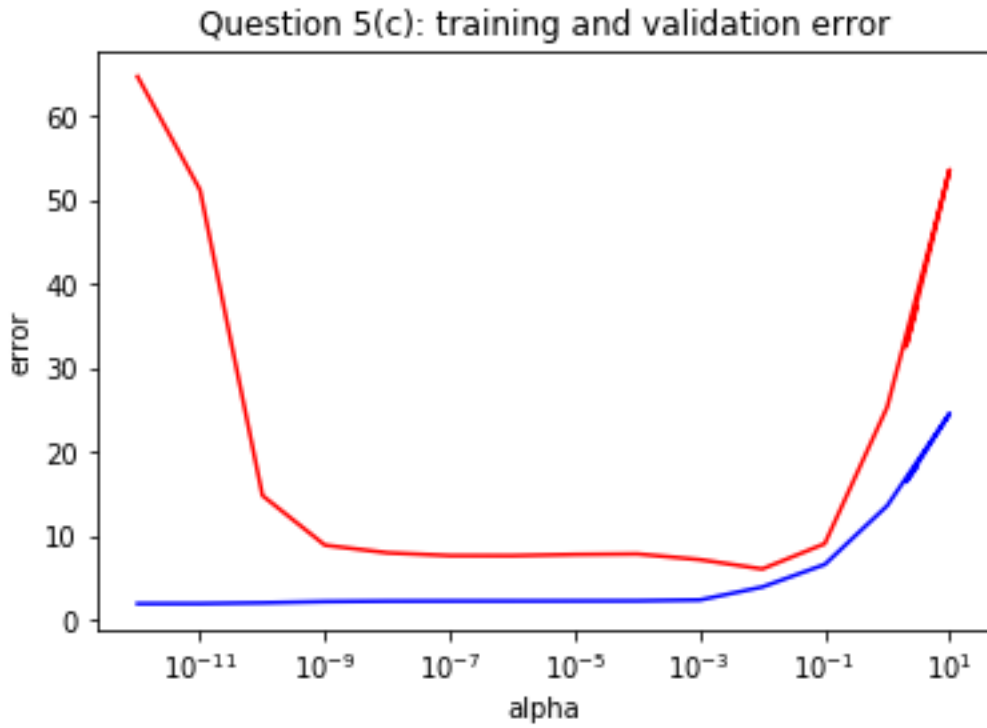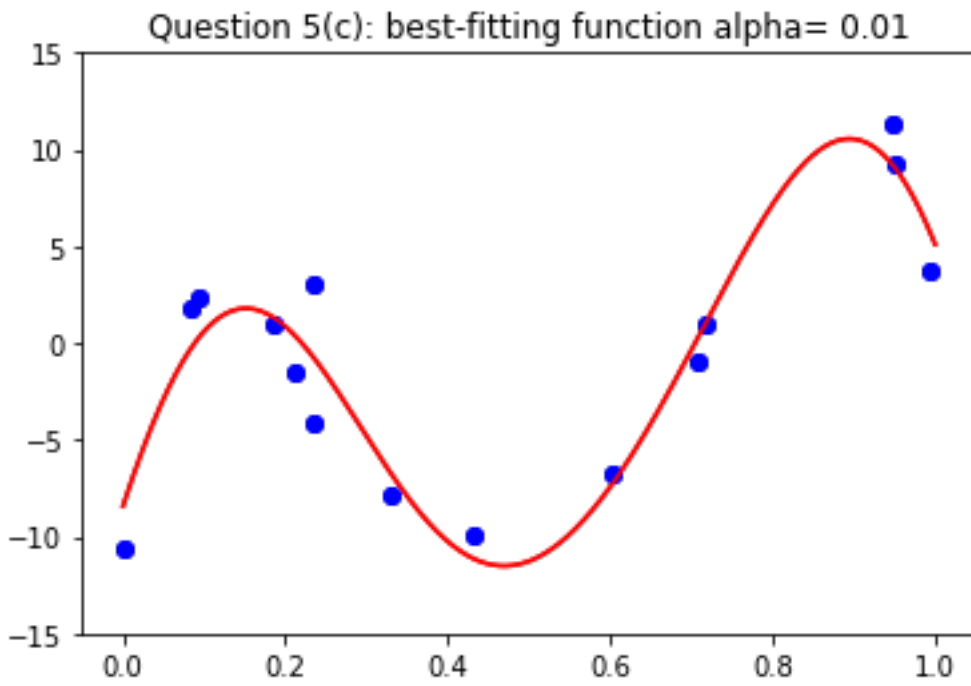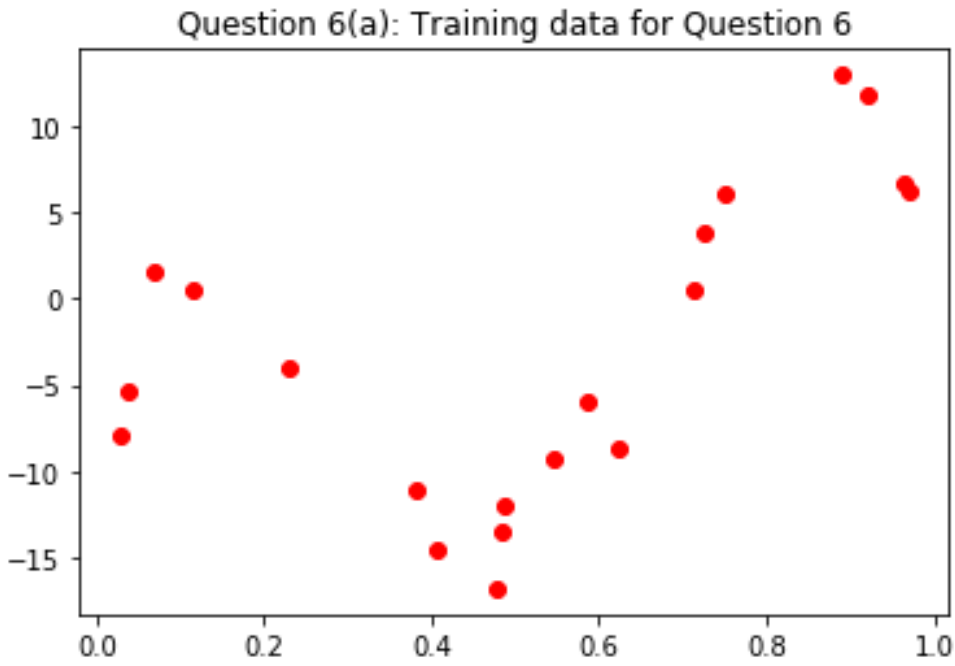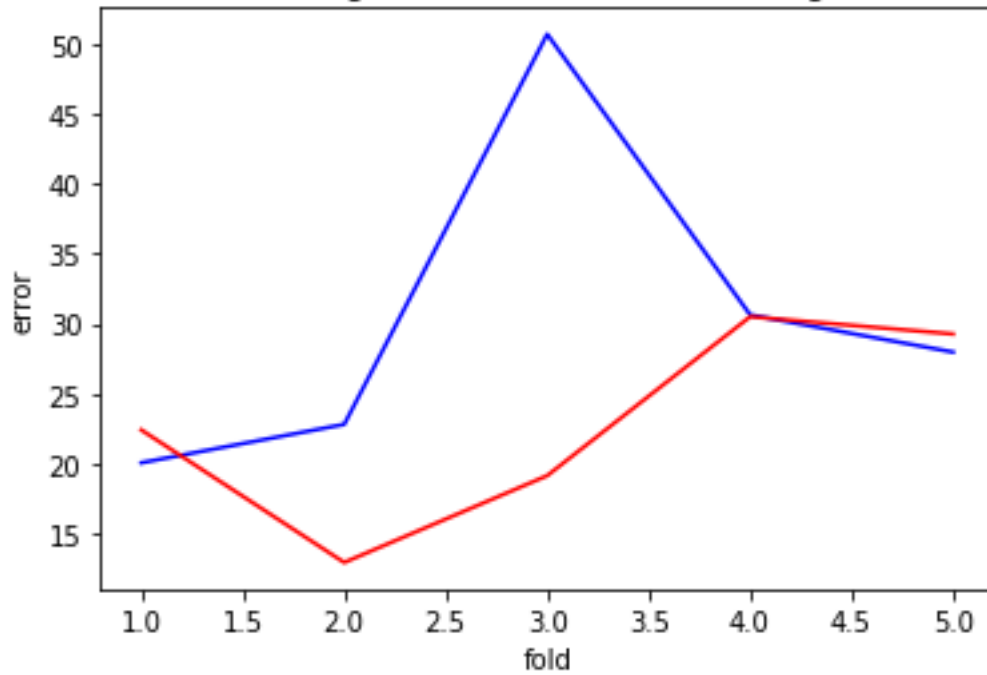
Figure 11

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

Figure 12

Figure 13

Figure 14