

*** Using only 5,000 MNIST training points ***

Question 1

Question 1(f):

5.4560465764183955e-14

Question 2

Question 2(a):

0.14

Question 2(b):

0.2574

9

Question 2(d):

0.6862

8

0.93

Question 2(f):

0.8506

0.985

0.25

16

Question 3

Question 3(b):

validation accuracy of the base classifier: 0.254

validation accuracy of the bagged classifier: 0.5818

Question 3(e):

0.3738

0.8846

Question 3(h):

0.8954

Question 4

Question 4(b):

-3536.424192018345

-3732.2514702478575

Question 4(c):

-3.694492907668107

-3.7608111048895503

Question 4(d):

-3.594361136392263

-3.729783366732916

Q4d-Q4c test scores =0.0310277381566344

Question 4(e):

3536.450268199036

3730.6655179668096

Q4e+Q4b test scores =-1.5859522810478666