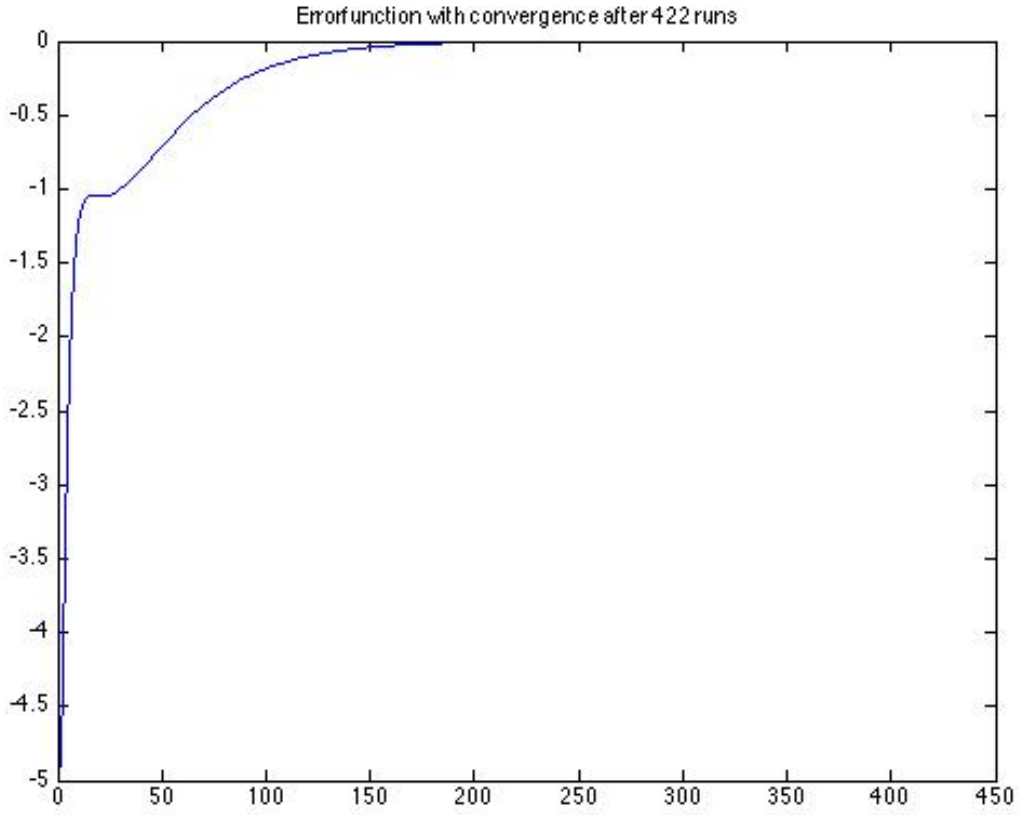
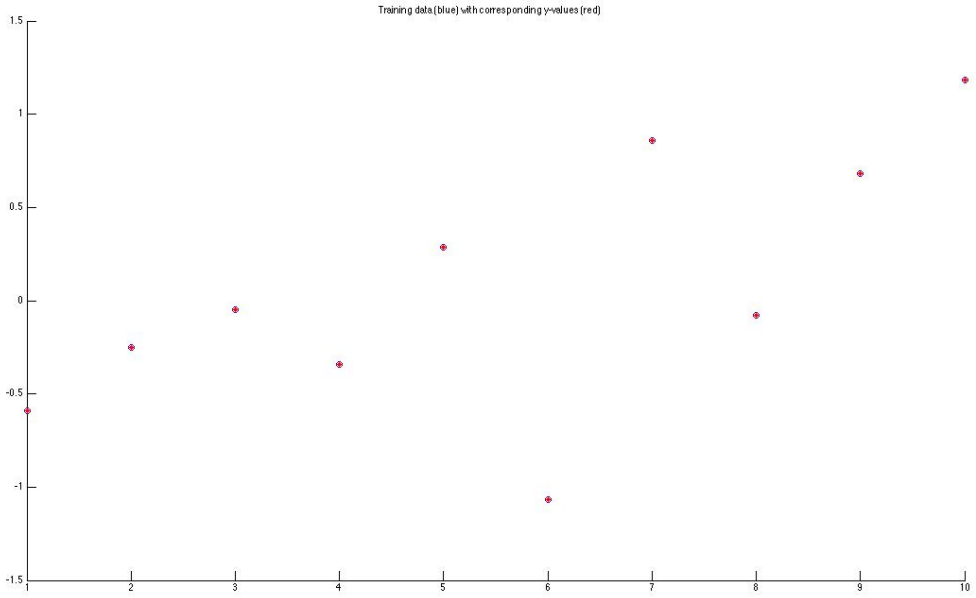
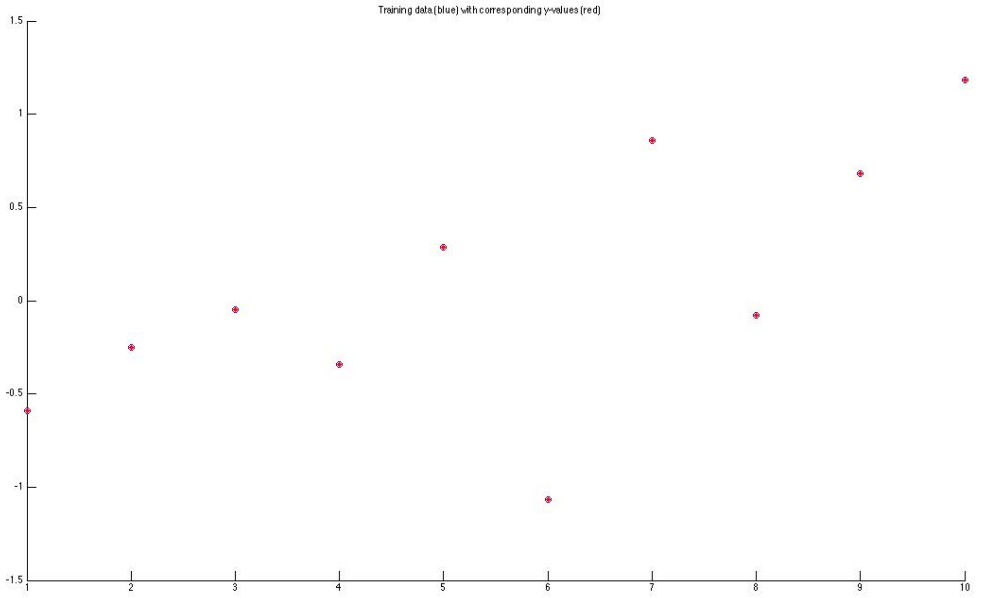
MI Homwork 3
a)

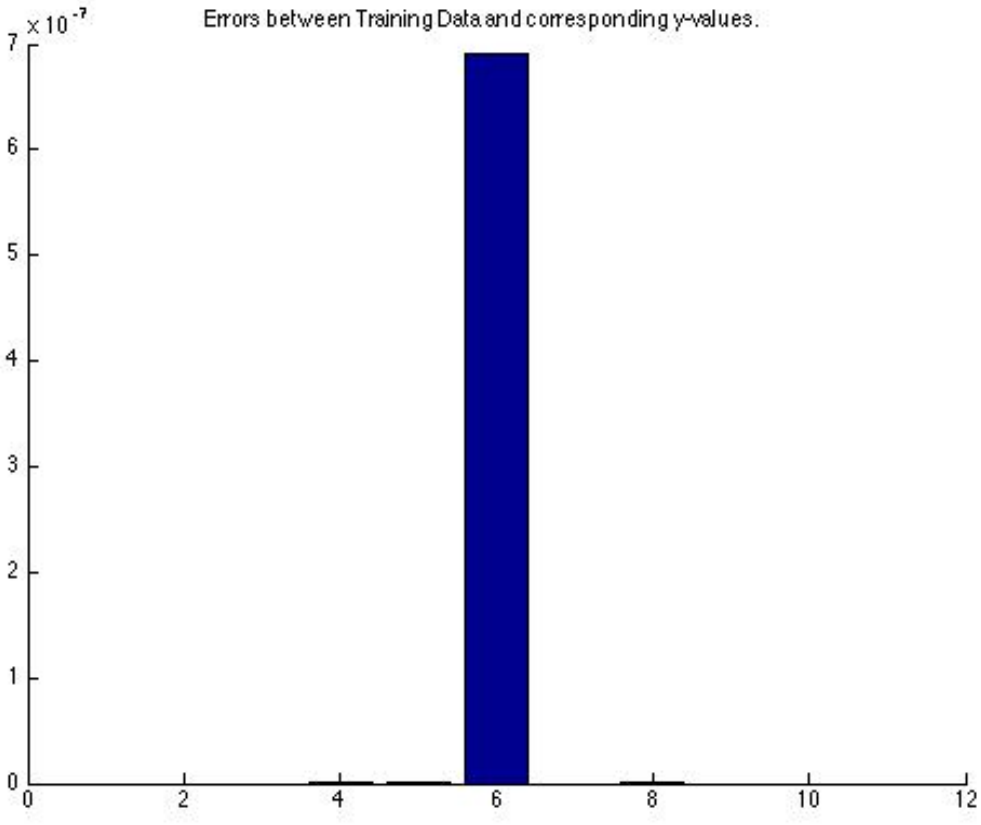


b)

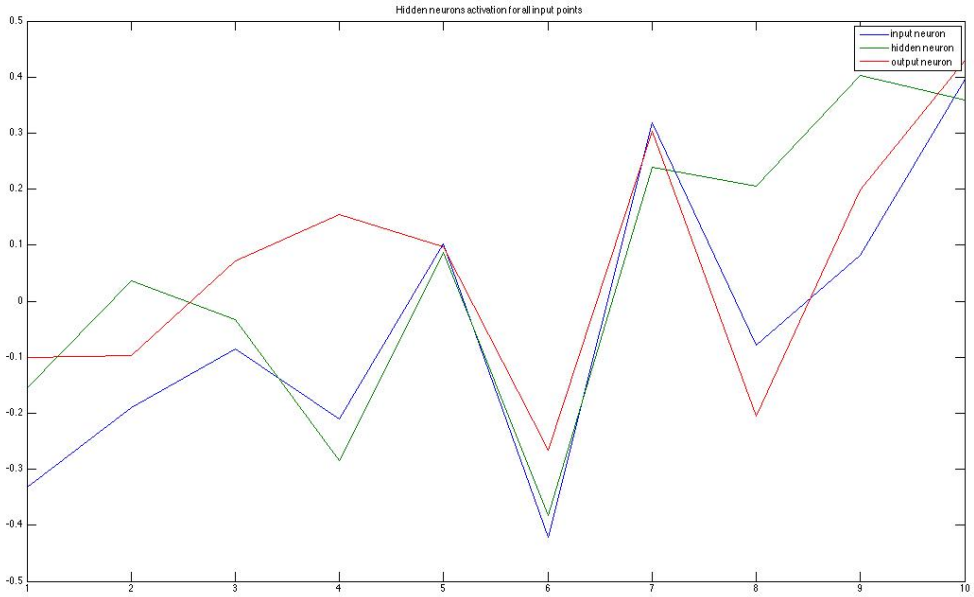

Training data (blue) with corresponding y-values (red)
1.5
1
0.5
0
-0.5
-1
-1.5
1
2
3
4
5
6
7
8
9
10

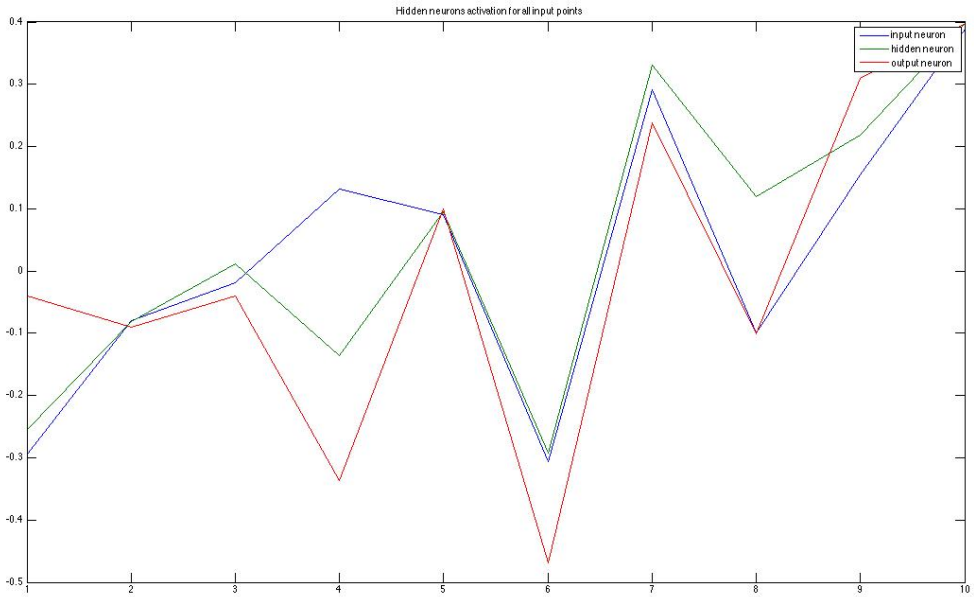
c)

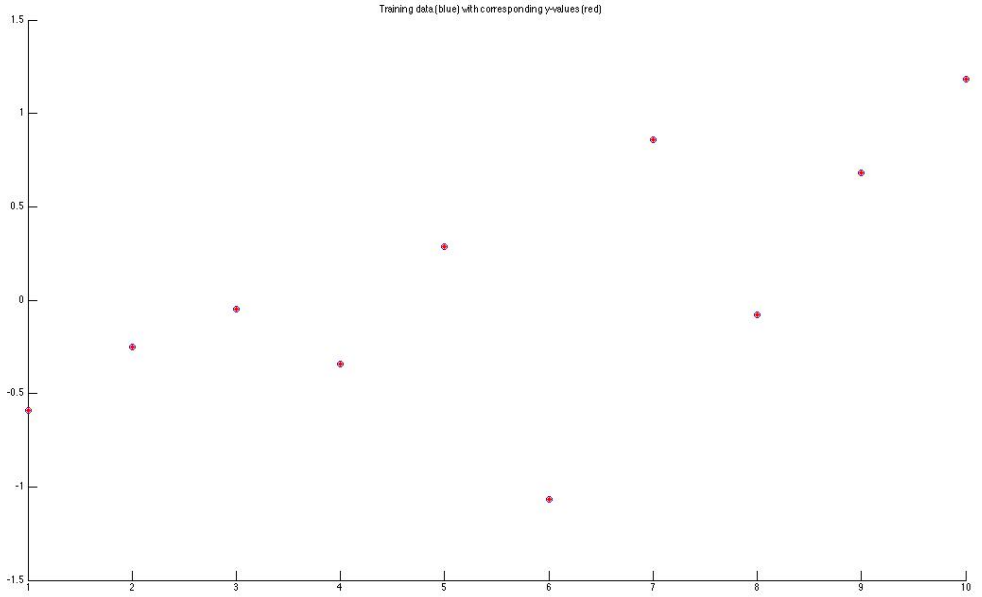

Training data (blue) with corresponding y-values (red)
1.5
1
0.5
0
-0.5
-1
-1.5
1
2
3
4
5
6
7
8
9
10

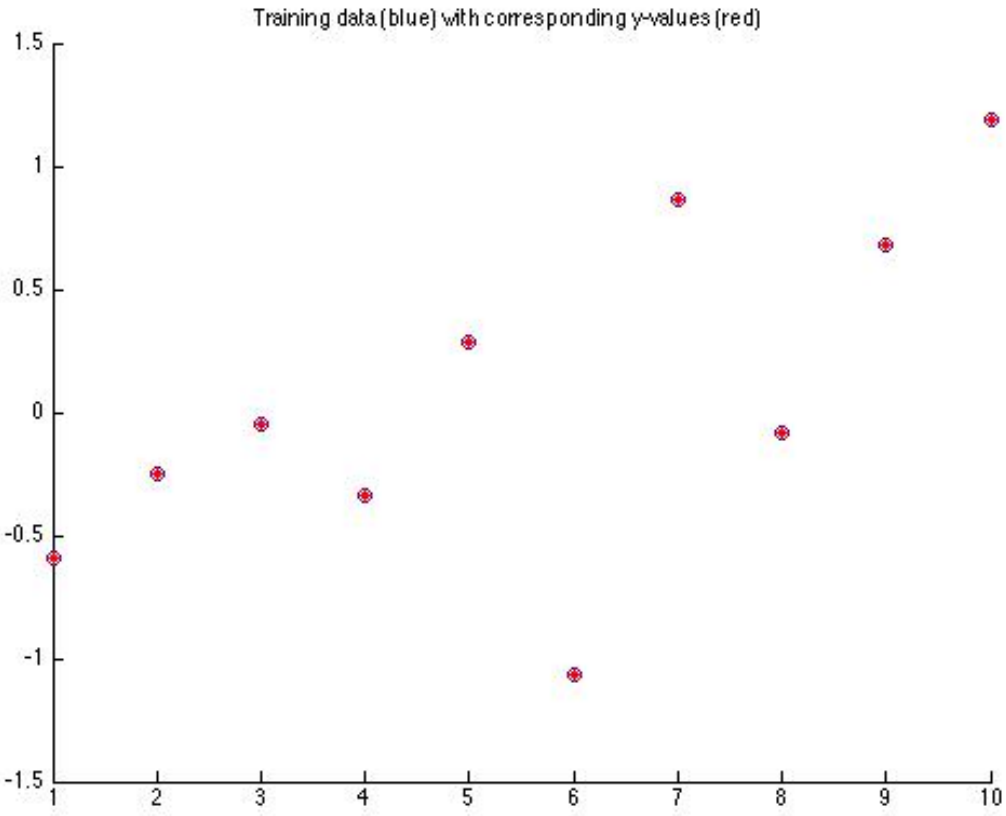

Errors between Training Data and corresponding y-values.
x 10^-7
7
6
5
4
3
2
1
0
0
2
4
6
8
10
12

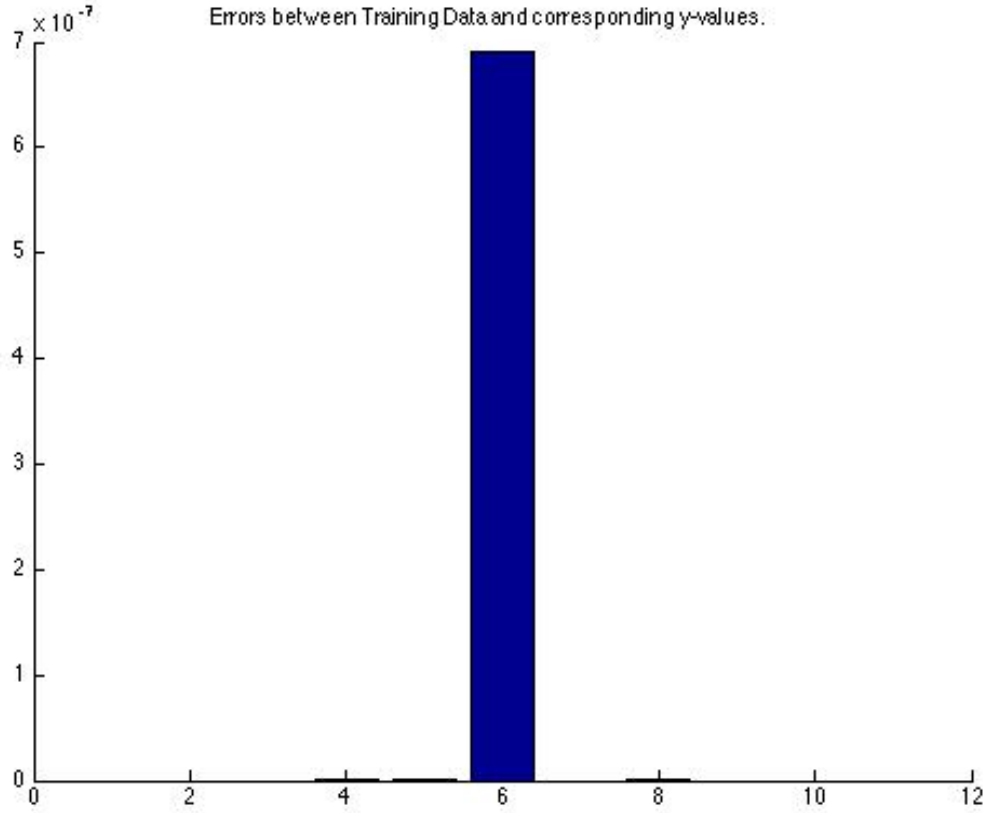
Comparison

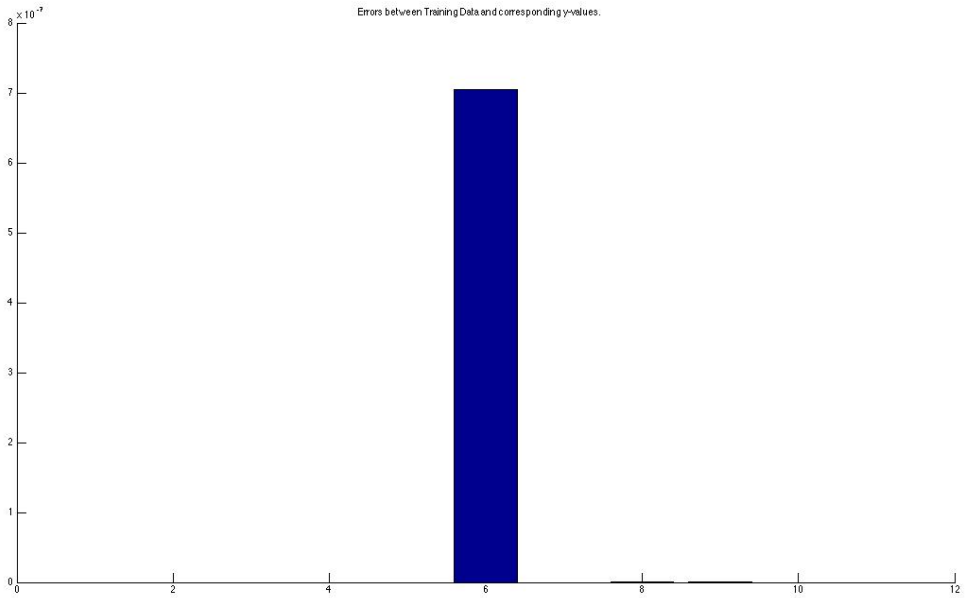

Hidden neurons activation for all input points
input neuron
hidden neuron
output neuron

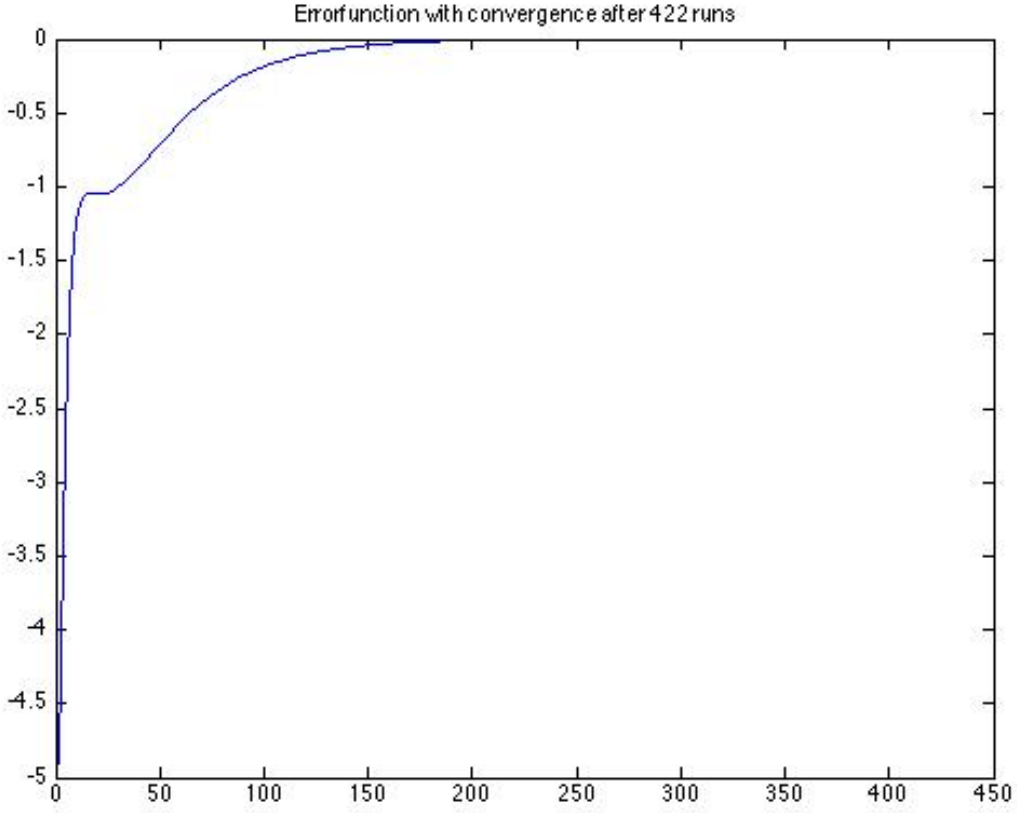

Hidden neurons activation for all input points
input neuron
hidden neuron
output neuron

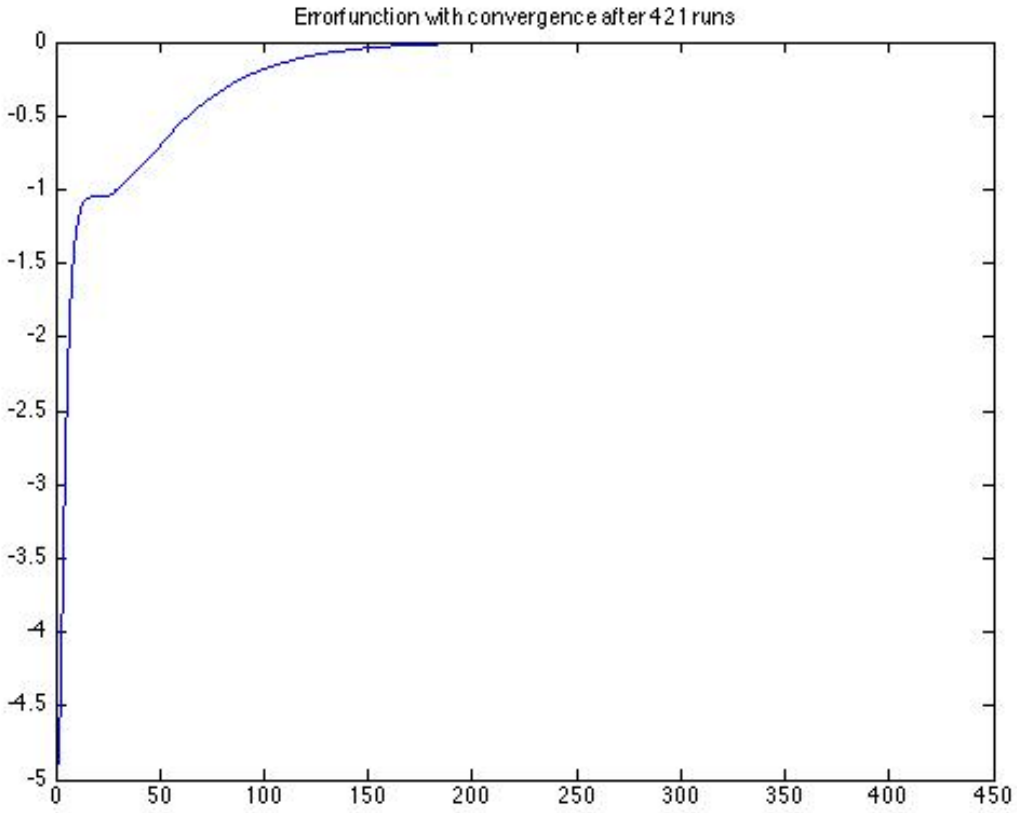

Training data (blue) with corresponding y-values (red)
1.5
1
0.5
0
-0.5
-1
-1.5
1
2
3
4
5
6
7
8
9
10


Training data (blue) with corresponding y-values (red)
1.5
1
0.5
0
-0.5
-1
-1.5
1
2
3
4
5
6
7
8
9
10


Errors between Training Data and corresponding y-values.
x 10^-7
7
6
5
4
3
2
1
0
0
2
4
6
8
10
12


Errors between Training Data and corresponding y-values.
x 10^-7
8
7
6
5
4
3
2
1
0
0
2
4
6
8
10
12


Errorfunction with convergence after 422 runs
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
-5
0
50
100
150
200
250
300
350
400
450


Errorfunction with convergence after 421 runs
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
-5
0
50
100
150
200
250
300
350
400
450