

# Project1-1

## sigmoid function case

Error in the 130-th learning cycle=0.000000  
Error in the 130-th learning cycle=0.002492  
Error in the 130-th learning cycle=0.005029  
Error in the 130-th learning cycle=0.009920

the weight of perceptron learning rule  
6.419696 6.375360 9.690702

## discrete function case

Error in the 6-th learning cycle=0.000000  
Error in the 6-th learning cycle=0.000000  
Error in the 6-th learning cycle=0.000000  
Error in the 6-th learning cycle=0.000000

the weight of perceptron learning rule  
2.486051 1.261674 2.940506

# Project1-2

	delta learning rule	perceptron learning rule
error	0.004921	0.000000
iteration steps	16	6

the weight of delta learning rule  
1.428389 1.038333 1.328800  
-0.906048 -1.923293 -0.101456  
-0.826124 0.686861 0.342136

the weight of perceptron learning rule  
7.104440 5.191631 6.865663  
-3.432007 -11.708179 0.733677  
-9.512499 -2.347115 0.770273