Exercise 4

4)

Ground Truth

AdaBoost

Prediction: [1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, -1.0, 1.0, -1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, -1.0]

Ground truth: [1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, -1.0, -1.0]

The params are (axis, parity, threshold, alpha):

(1, -1, 2.25251679478777, 0.23978654013094272)

(1, 1, 9.89054156672682, 0.27406070425484363)

(1, 1, -4.623163653443873, 0.3309710779451214)

(0, -1, 4.729607545355632, 0.30315121611867374)

(0, -1, -9.904907395393463, 0.3619210392098007)

(1, -1, 6.761004898679076, 0.41255815716153843)

(1, 1, 9.89179191783661, 0.28866757552661576)

(0, 1, -5.742654688924802, 0.4280271563258069)

(1, 1, 9.952618596601088, 0.2756166618661672)

(1, 1, -6.049432029862556, 0.28569511679158277)

(0, -1, 5.856564397939032, 0.3713895264086768)

(0, -1, -9.74172983837276, 0.353164874564701)

(0, 1, -5.595201916573663, 0.25297409408037713)

(1, 1, 9.892867981081533, 0.25807783344851964)

(0, -1, 6.592213321779209, 0.32939196996471637)

(1, 1, 9.861793190985637, 0.24611142757662904)

(0, 1, -5.614910455376391, 0.22124807952125364)

(0, -1, -9.919444064282244, 0.1482186084444793)

(1, -1, 6.745968062515473, 0.36596685718168437)

(1, 1, 9.987841755560687, 0.2655840166395033)