DSE 220: Machine learning

Worksheet 10 — Multiclass linear classification

- 1. A linear predictor is used to solve a classification problem with three classes. The data is twodimensional and the linear functions for each class are:
 - Class 1: $w_1 = (1, 1), b_1 = 0$
 - Class 2: $w_2 = (1,0), b_2 = 1$
 - Class 3: $w_3 = (0,1), b_3 = -1$

Draw the resulting decision boundary and clearly mark the region corresponding to each class.