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# Technical Neural Networks Assignment Sheet 9

#### December 2022

#### **Assignment 53**

#### **Assignment 54**

VC-capacity h of a binary classifier means that it can create  $2^h$  labelings. If  $2^h \le 1000$ , then h = 9.

### **Assignment 55**

Binary classification is a task of finding right parameters  $\alpha$  such that classifier function  $f_{\alpha}$  can perform the right mapping from input training patterns X to desired outputs  $y \in \{-1, 1\}$ :  $f_{\alpha}(X_i) = y_i$ .

## **Assignment 56**

### **Assignment 57**

The two hyperplanes are parallel, have the same slope. The distance between them is equal to 2|b|.

#### **Assignment 58**

# **Assignment 59**

Assignment 53 Starting with linear spyndary classification for 19 here h=2 cannot be separated boundary classification for 22 inear sannot be reparated liggest set of points that the dimension be separated (see examples). It does Can 3 distribution space on the input depend

