Pattern Recognition Quiz #1

- Why does the class model change with the change of classification problem with the same dataset?
- 2. For the following discriminant functions:

```
g_1(x) = -x_1 + \#x_2

g_2(x) = \#x_1 + x_2 - 1

g_3(x) = -x_2

(where # is replaced a
```

(where # is replaced with the last digit of your ID) find the decision boundary equations for each pair of classes. **6**

3. Why do you need a margin for finding a solution region? How do you incorporate the margin in the weight update equations? 4