EE559 Mathematical Pattern Recognition

**HOMEWORK #2**

**HOMEWORK – Introduction to Mathematical Pattern Recognition**

**Issued: 31/01/2020 Due: 6/02/2020**

1. **Problem 1**

**A screenshot of a cell phone

Description automatically generated**

Figure 1 decision boundary plot

In Figure 1, the purple area is the indeterminate region for three classes. The yellow region represents the class one region. The green region is the class two. The blue region is the class three. The star point represents [0,0], the x point represents [1,5] and the circle one represents [4,1].

1. **Problem 2**
2. **Problem 3**
3. **Expression for function g(x)**