**ASSIGNMENT 1 Training Algorithms and Generalization**

**Exercises 1**

* 1. **Linear regression with a perceptron**
  2. **Link Between Two Models**

They are very similar in structure. The main difference between them is that the transfer function of perceptron is a binary, while the transfer function of linear model is linear.

**Exercises 2**

**x = linspace(0,1,21); % creates 21 datapoints uniformily distributed in the interval [0,1].**

**y = -sin(.8\*pi\*x); % computes the image of these 21 datapoints in a new vector y**

**plot(x,y)；**

**title("y=-sin(.8\*pi\*x")；**

