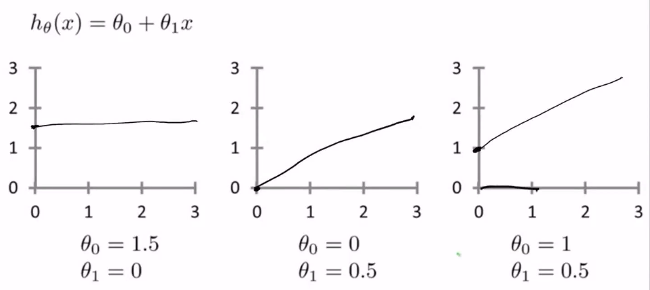
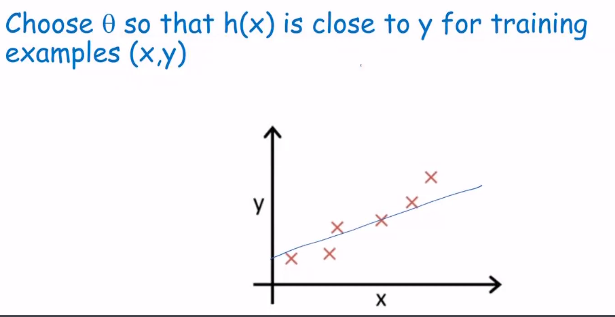
**Machine Learning : Linear Regression**

**Regression – mapping our data features on to a target label where the target takes on a continuous value.**

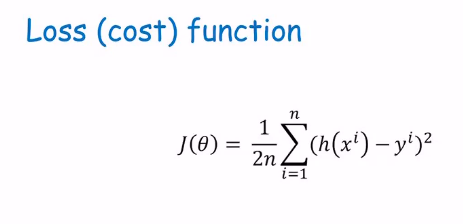
**Goal**

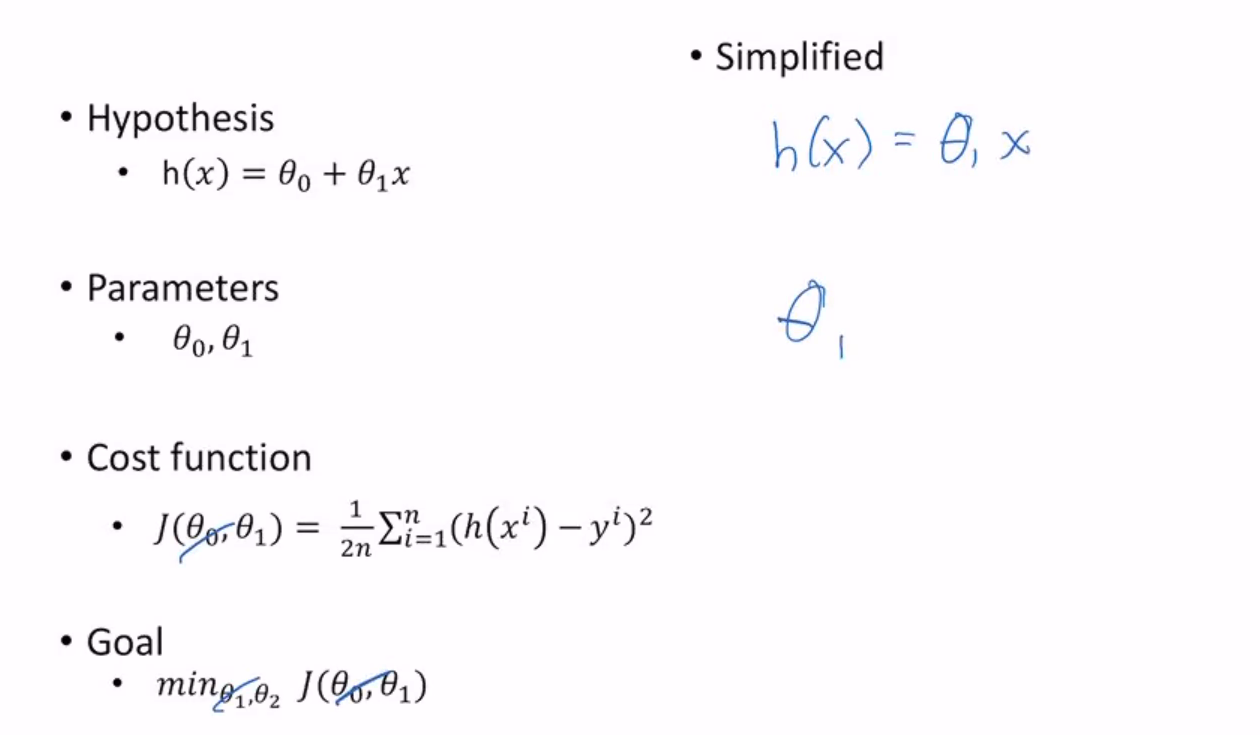
* **Map data X to real value Y**
* **Linear regression, mapping is linear function of X**
  + **Hypothesis function**
  + **Sub = All the parameters that define that function**
  + **linear combination of input features**
  + **y-intercept**



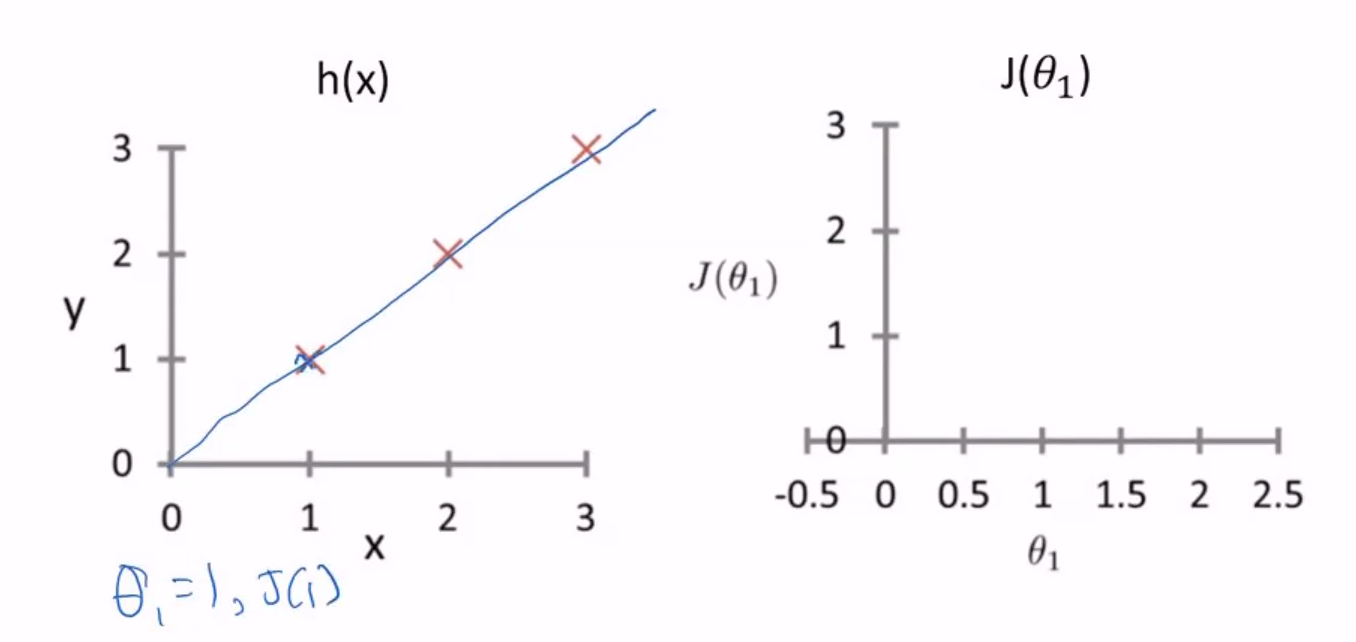


* **Goal of linear regression is to minimize over the space of multiple parameters**

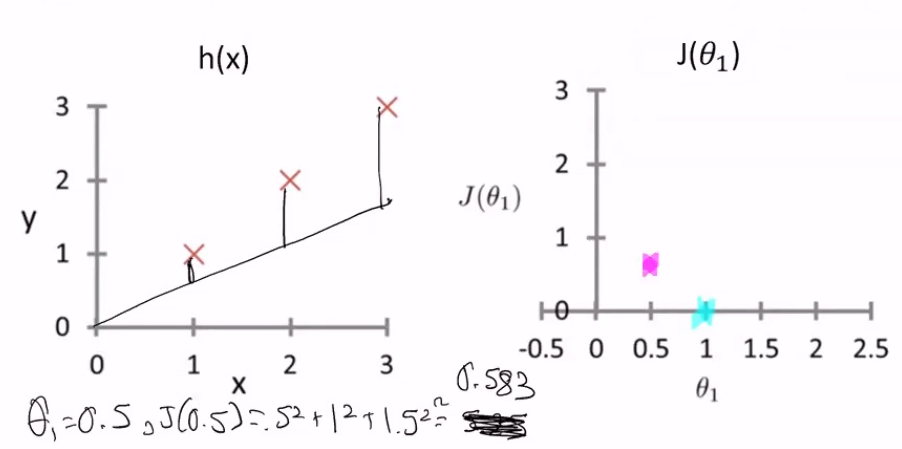




**First Point**



**Second Point**



**Third Point**

