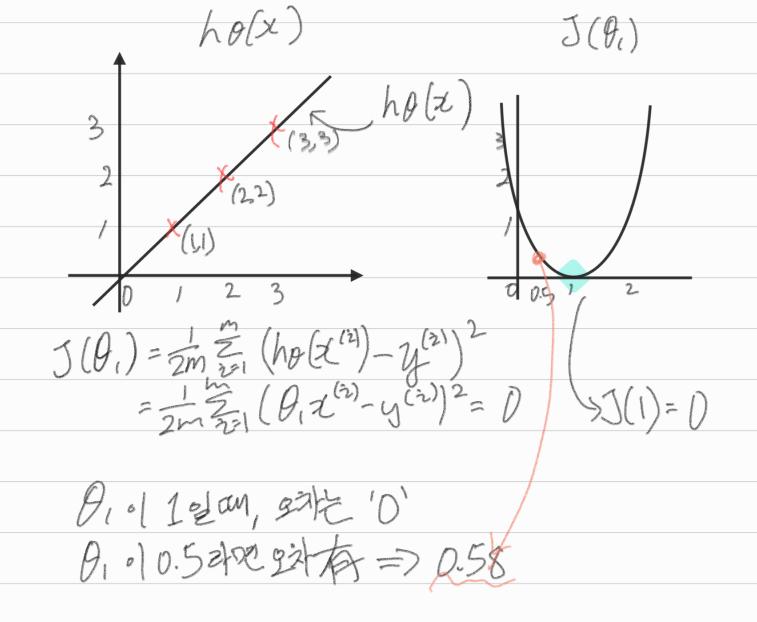
Model Representation training ex. (2(1), y(i)) 2 Den (Supervised 2/5342) Our goal is to learn a function h: X -> Y so that h(x) is a "good" predictor for the corresponding value of y Training set

Learning algorithm

2 -> h -> predicted y Cost Function - Squared Error function (MSE)  $J(\theta_{0},\theta_{1})=\frac{1}{2m}\sum_{i=1}^{m}(y_{i}-y_{i})^{2}-\frac{1}{2m}\sum_{i=1}^{m}(ho(2i)-y_{i})^{2}$ Minimize Go, G, Hof training ex.



## On same contour, same value of cost function

