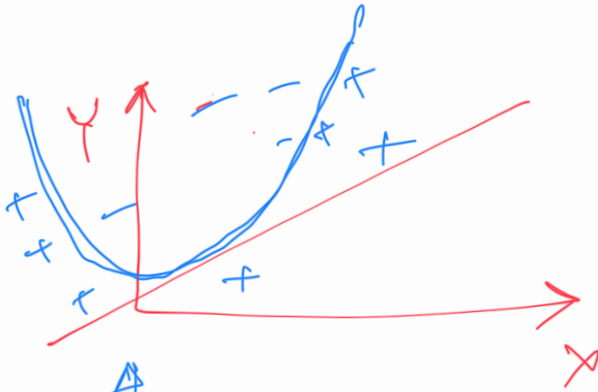


1.



↑
assumption

↓
bias

$$h(x) = \bar{w} \cdot \bar{x}$$

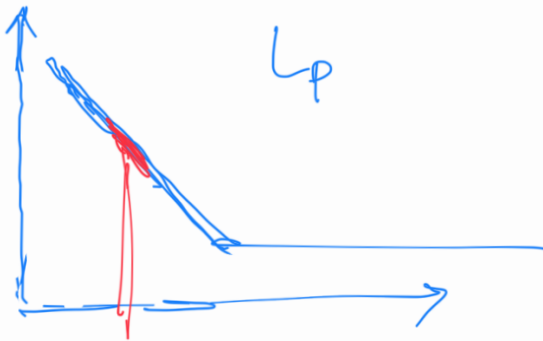
$$= w_0 x_0 + w_1 x_1 + w_2 x_2 + \dots$$

$$h(x) = w_0 x_0 + w_1 x_1$$

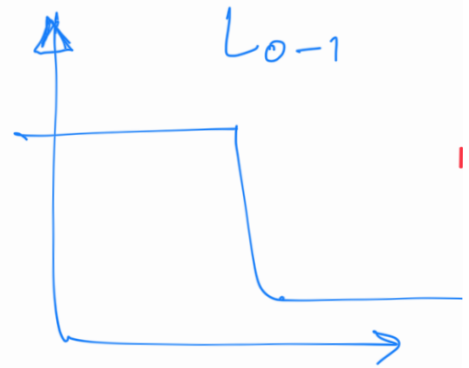
$$+ w_2 x_2^2$$

$$h(x) = w_0 x_0 + w_1 x_1^2$$

2.



Perception loss



0-1 Loss

$$\frac{\partial L}{\partial \theta}$$

min^m loss → optimization

$$\frac{\partial L_{0-1}}{\partial \theta}$$

loss function needs to be differentiable