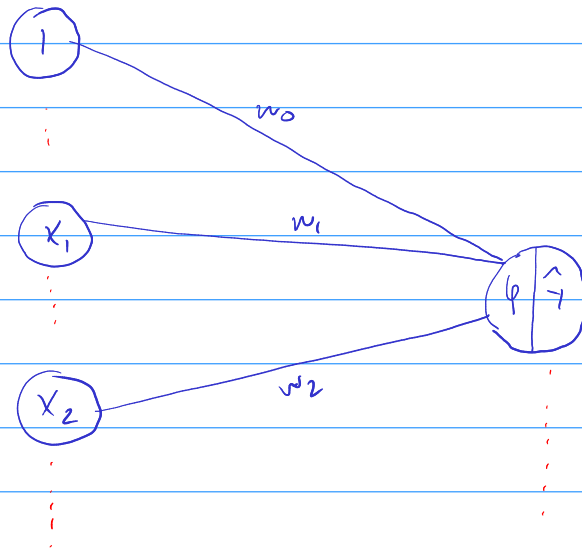


## ① Graphical presentation / neuron network Presentation of

Linear Regression

$$\hat{y} = w_0 + w_1 x_1 + w_2 x_2$$



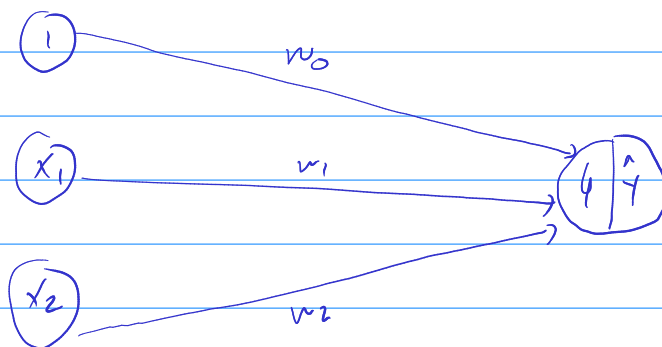
$$\phi(t) = t$$

input layer

output layer

## ② Logistic Regression

$$\hat{y} = \frac{1}{1 + e^{-(w_0 + w_1 x_1 + w_2 x_2)}}$$

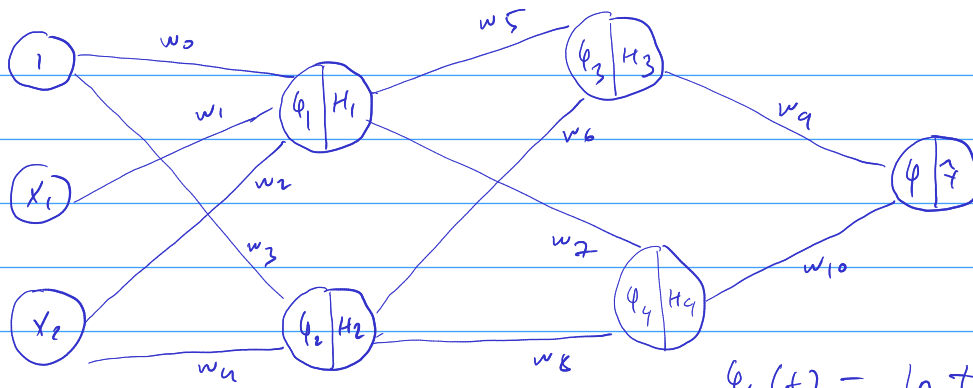


$$\phi(t) = \frac{1}{1 + e^{-t}}$$

$$\phi_1(t) = t^2$$

$$\phi_3 = \frac{1}{t}$$

$$\phi(t) = t$$



$$\phi_4(t) = \ln t$$

$$\phi_2(t) = \cos(t)$$