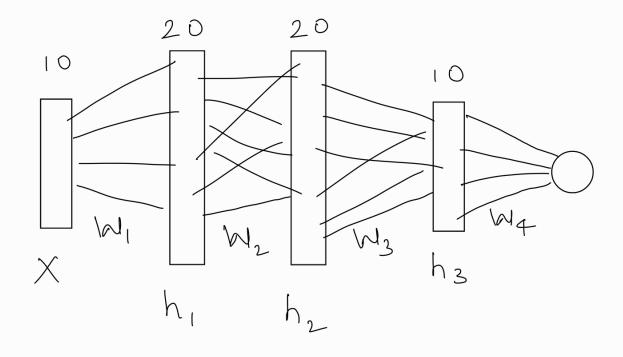


$$|\omega| = \begin{bmatrix} \omega_{11} & \omega_{12} & \omega_{13} \\ \omega_{21} & \omega_{31} \\ \omega_{41} & \omega_{43} \end{bmatrix}$$

$$h_1 = \phi(W^Tx)$$

of is a non-linear function

$$h_n = \phi(W^T h_{n-1})$$



$$L = \sum \left( \rho_i - y_i \right)^2$$

Linear Classification will only act as one layer - Perceptron This is why the non-linear function (\$\phi\$) is important. Otherwise, all layers will act as a single layer.

Eg: Drawback of linear classification

You can't classify

this using linear

classifier

sign (WTX)

- ve other class