

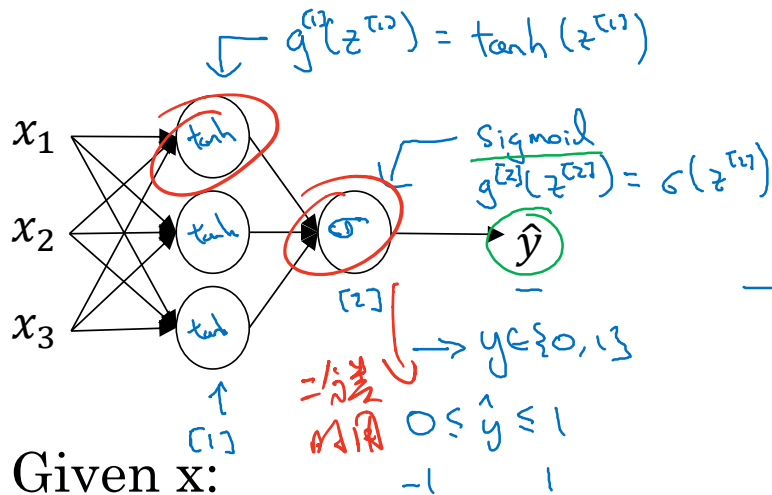


deeplearning.ai

One hidden layer
Neural Network

Activation functions

Activation functions



Given x :

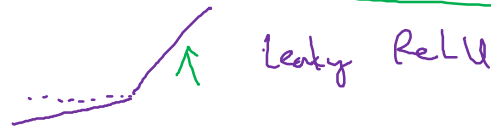
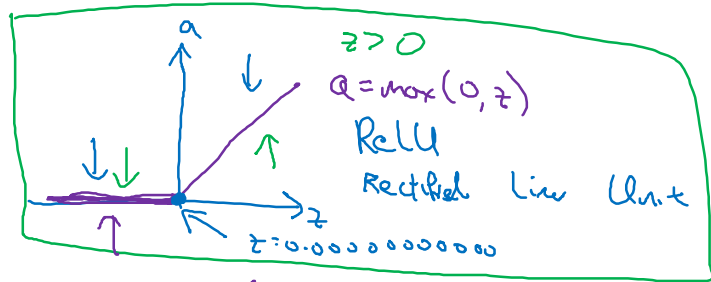
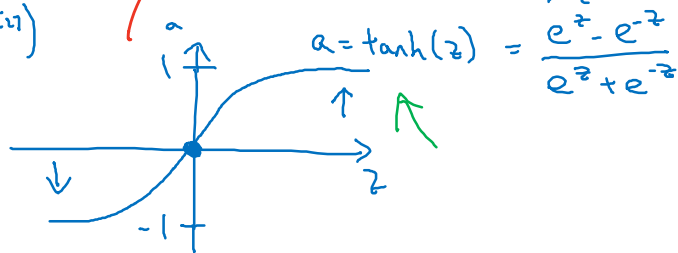
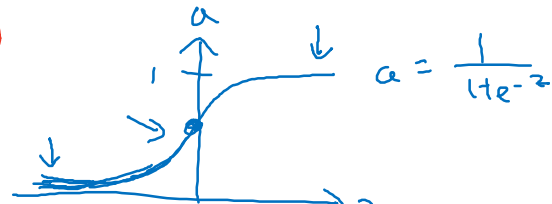
$$z^{[1]} = W^{[1]}x + b^{[1]}$$

$$\rightarrow a^{[1]} = \sigma(z^{[1]}) \quad g^{(1)}(z^{(1)})$$

$$z^{[2]} = W^{[2]}a^{[1]} + b^{[2]}$$

$$\rightarrow a^{[2]} = \sigma(z^{[2]}) \quad g^{(2)}(z^{(2)})$$

(均恒为0)
tanh 几乎总
比 sigmoid
好



Pros and cons of activation functions

