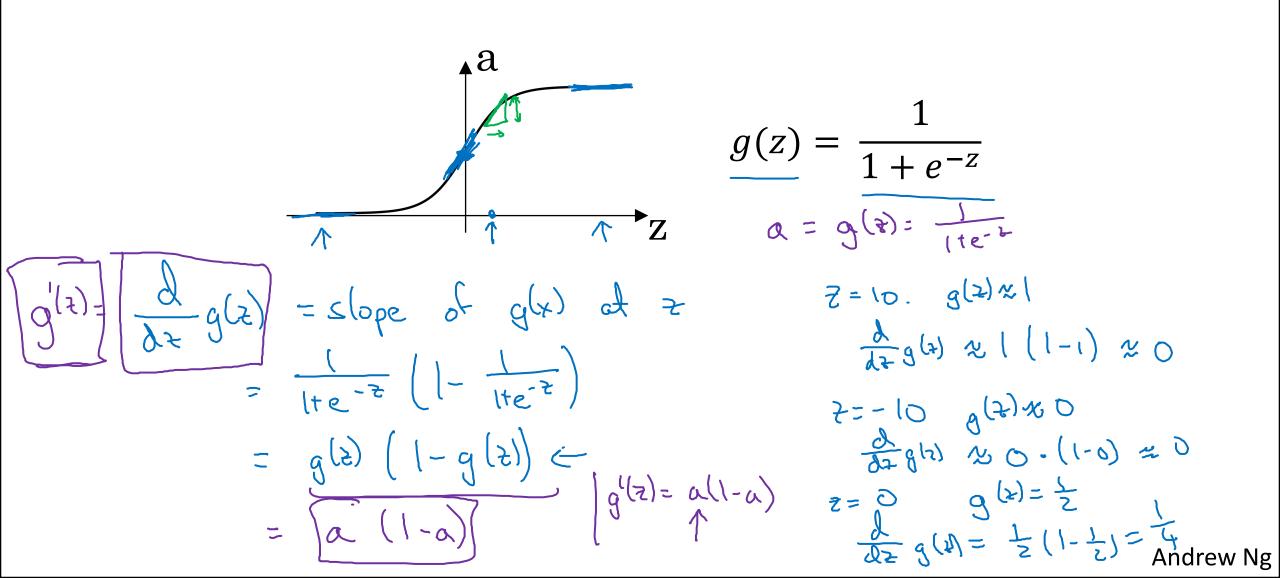


deeplearning.ai

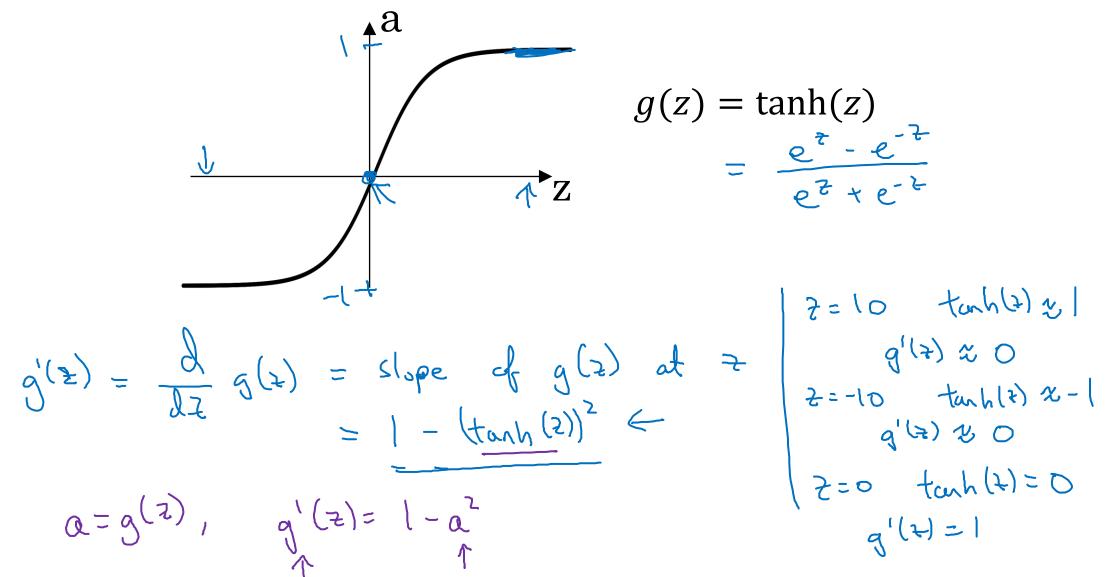
# One hidden layer Neural Network

# Derivatives of activation functions

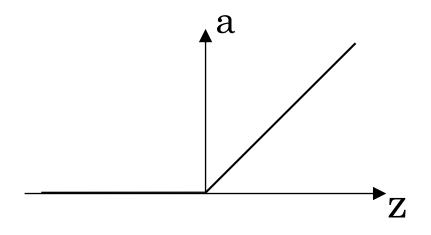
## Sigmoid activation function



### Tanh activation function



## ReLU and Leaky ReLU

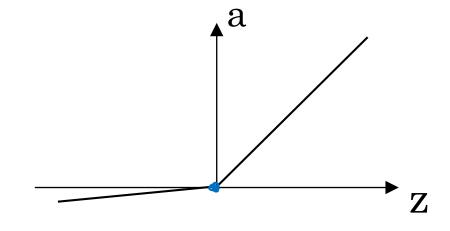


#### ReLU

$$g(t) = mox(0, 2)$$

$$g(t) = f(0, 2)$$

$$f(t) = f(0, 2)$$



#### Leaky ReLU

$$g(z) = \max(0.01z, z)$$

$$g(z) = \begin{cases} 0.01 & \text{if } z > 0 \end{cases}$$