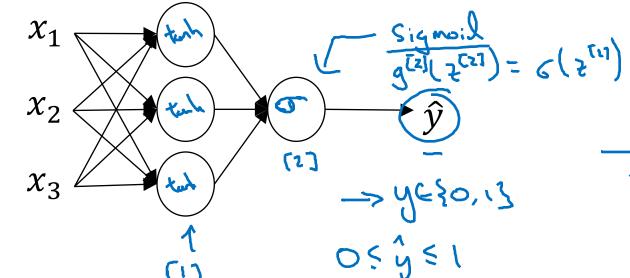


deeplearning.ai

One hidden layer Neural Network

Activation functions

Activation functions

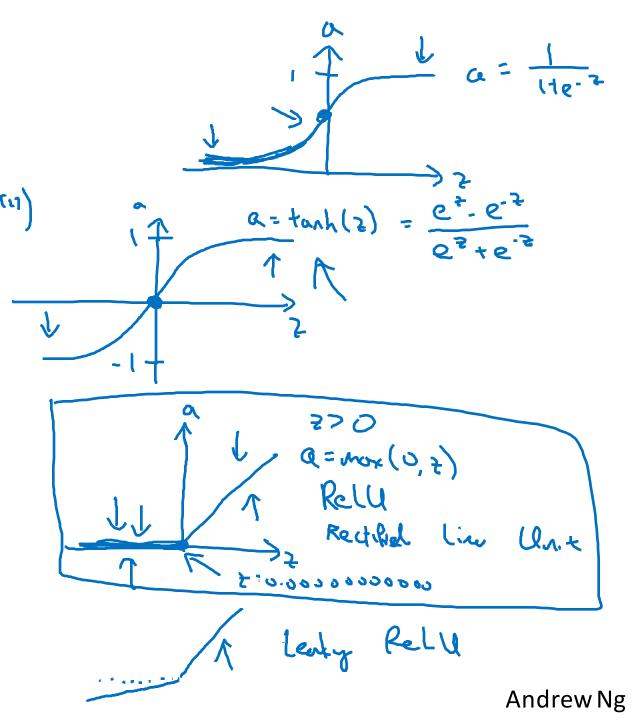


Given x:

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

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

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



Pros and cons of activation functions

