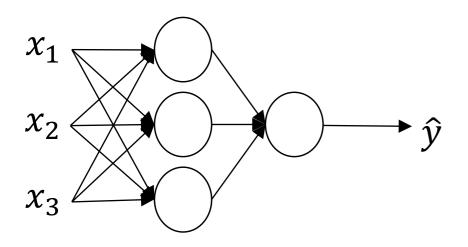


deeplearning.ai

# One hidden layer Neural Network

## Activation functions

#### Activation functions



#### Given x:

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

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

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

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

### Pros and cons of activation functions

