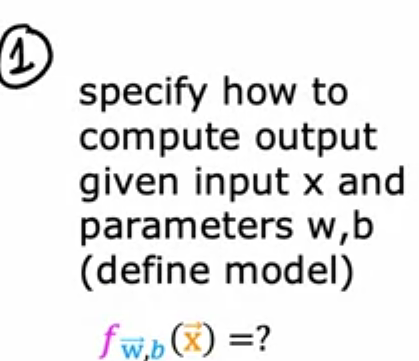
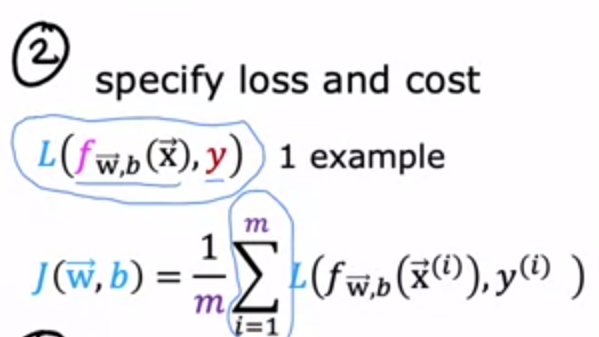
**Advanced Learning Algorithms**

Steps of Model Training in Neural Networks

A black text with black text

Description automatically generated with medium confidence



A close-up of a white background

Description automatically generated

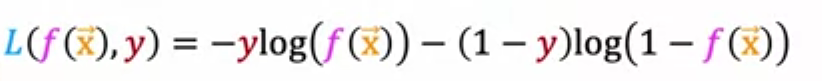
A close up of a white background

Description automatically generated

A black text on a white background

Description automatically generated

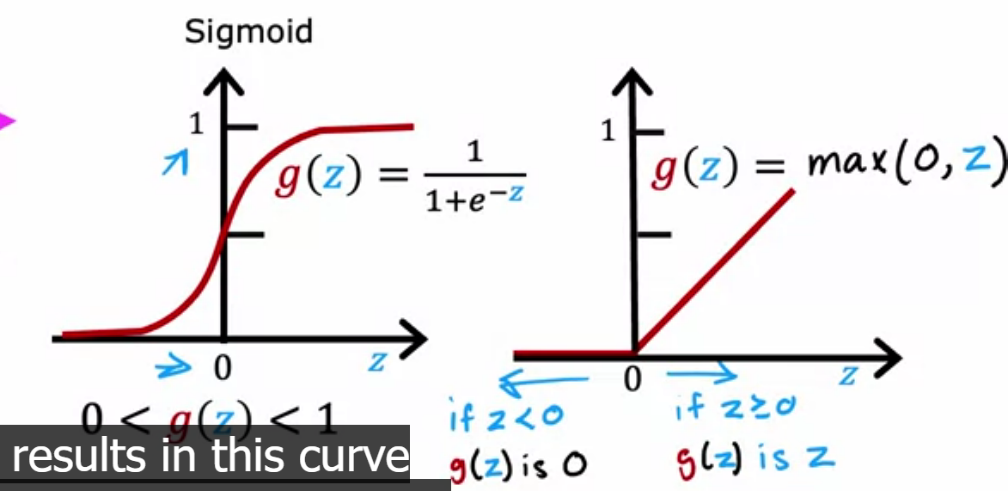
Binary cross entropy loss function is the function used in logistic regression.



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Activation Functions

They are used in the output layer of NN

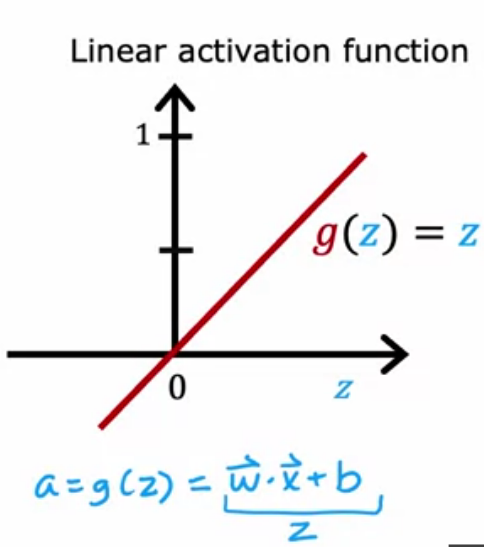




relU function allows the values of z to pass as long as it

is non-negative value.

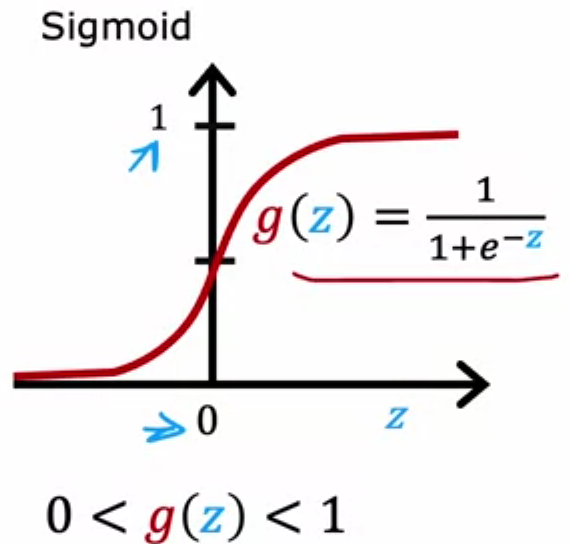
relU stands for ( rectified linear Unit)



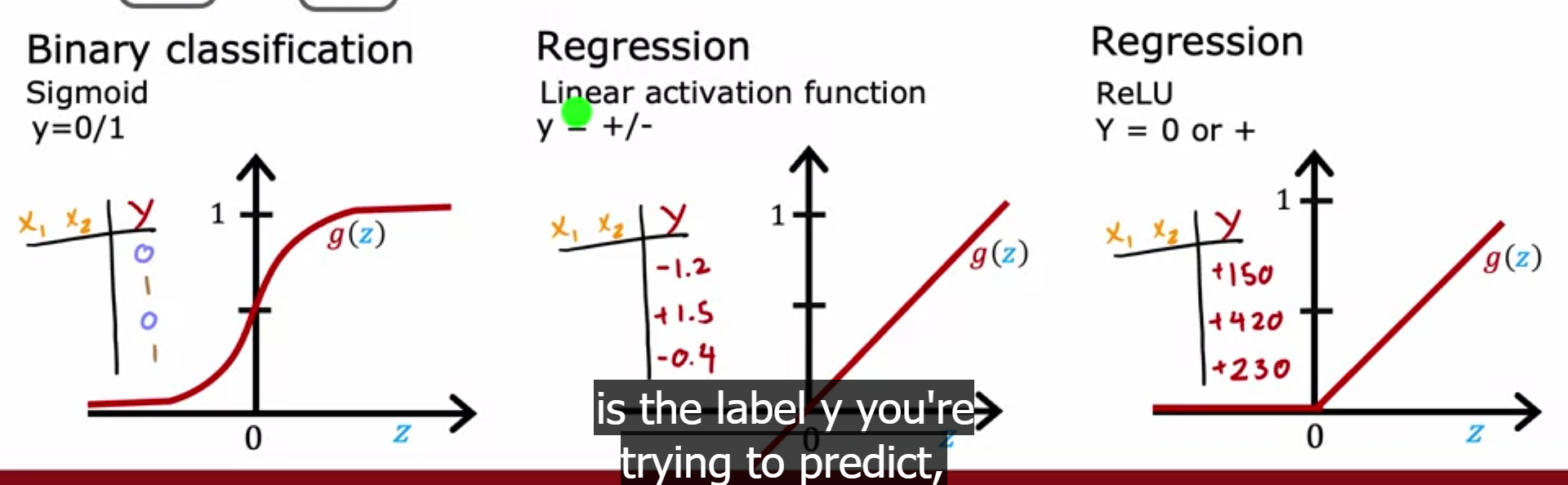
This means no activation function because

it doesn’t do

anything new to the original function



Choosing Activation function

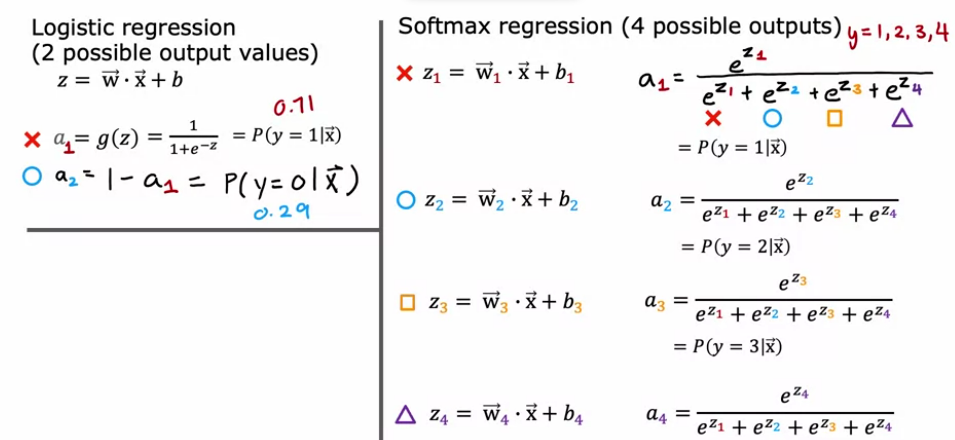


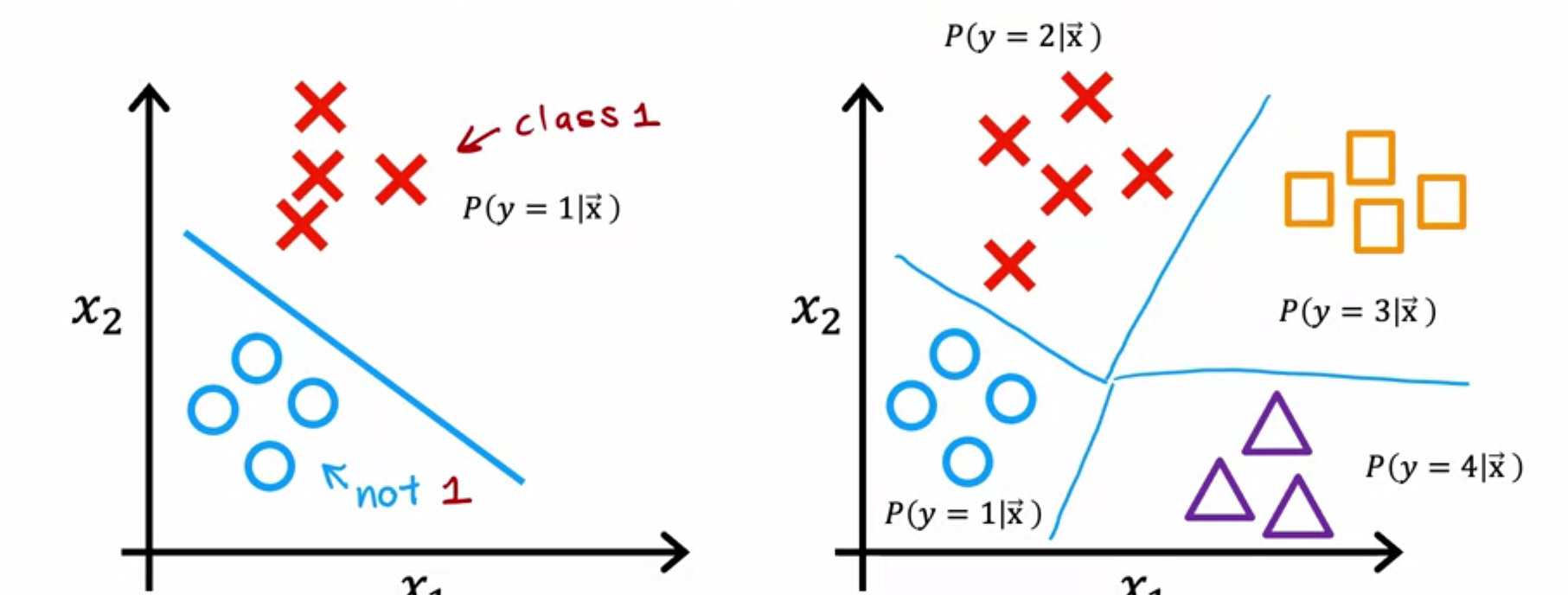
For a summary

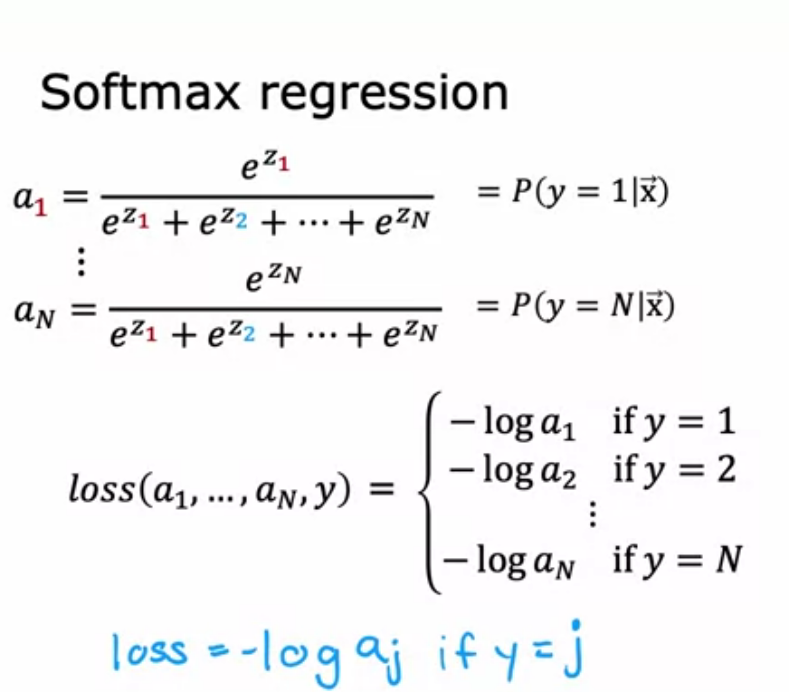
Choose (relu) for the hidden layers, and for the output layer choose one of the three functions depending on the case of output.

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Multiclass Classification

Before the output was either 0 or 1 now we want to output more possible cases like 2, 3, 4 … 9





loss function of

softmax regreassion