III. Can you calculate this by hand? [3. Hidden Layer]
My 5 hand-on exercises to teach the basics of deep learning

[Exercise 3 of 5: Hidden Layer]

This exercise allows students to practice the following:

1. Hidden Layer: $W1*x + b1 \rightarrow$ ReLU $\rightarrow$ h
2. Output Layer: $W2*h + b2 \rightarrow$ ReLU $\rightarrow$ y
3. Draw a graphical representation of this two-layer network
4. See the correspondence between weights and nodes

 # of weights in a hidden node = # of nodes in the input layer
 # of weights in an output node = # of nodes in the hidden layer

5. Count all the parameters of this network: $4 * (3 + 1) + 2 * (4 + 1)$ $= 16 + 10 = 26$
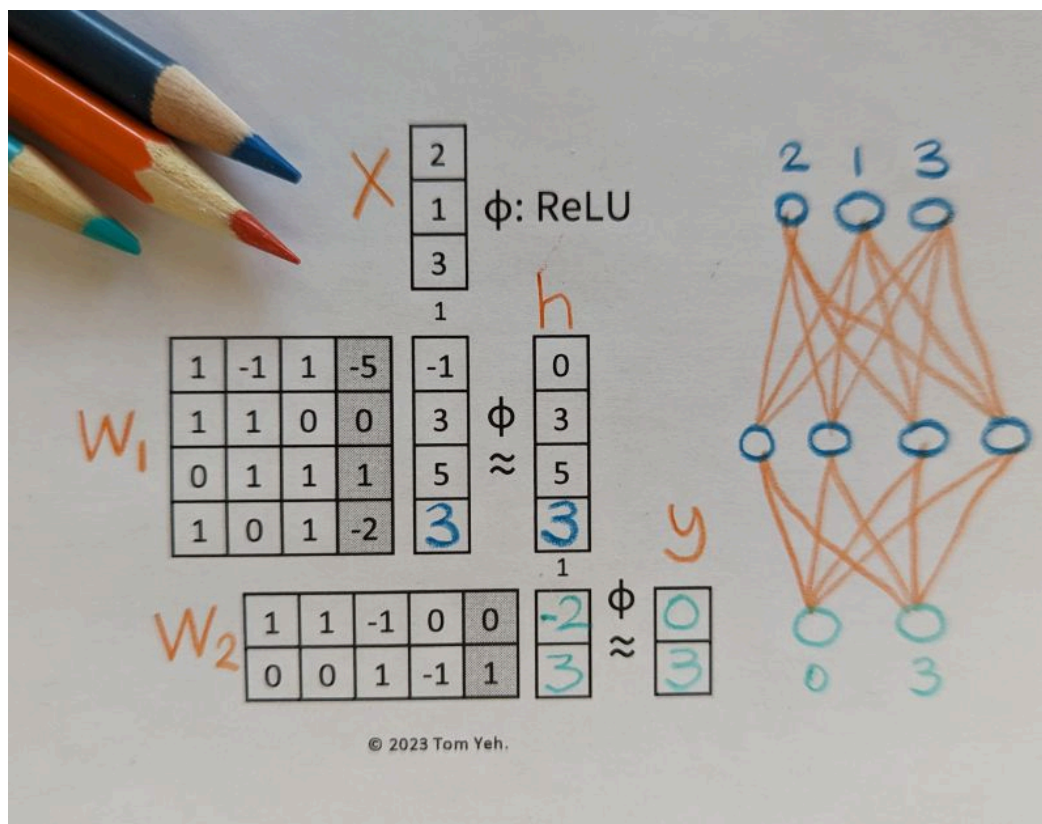
Next, I will extend this exercise from one input vector to a batch of input vectors.

Review the first two exercises:
[1] Single Neuron: https://lnkd.in/gKqEGPgf
[2] Four Neurons: https://lnkd.in/gc-qwJ6X

#deeplearning #neuralnetworks