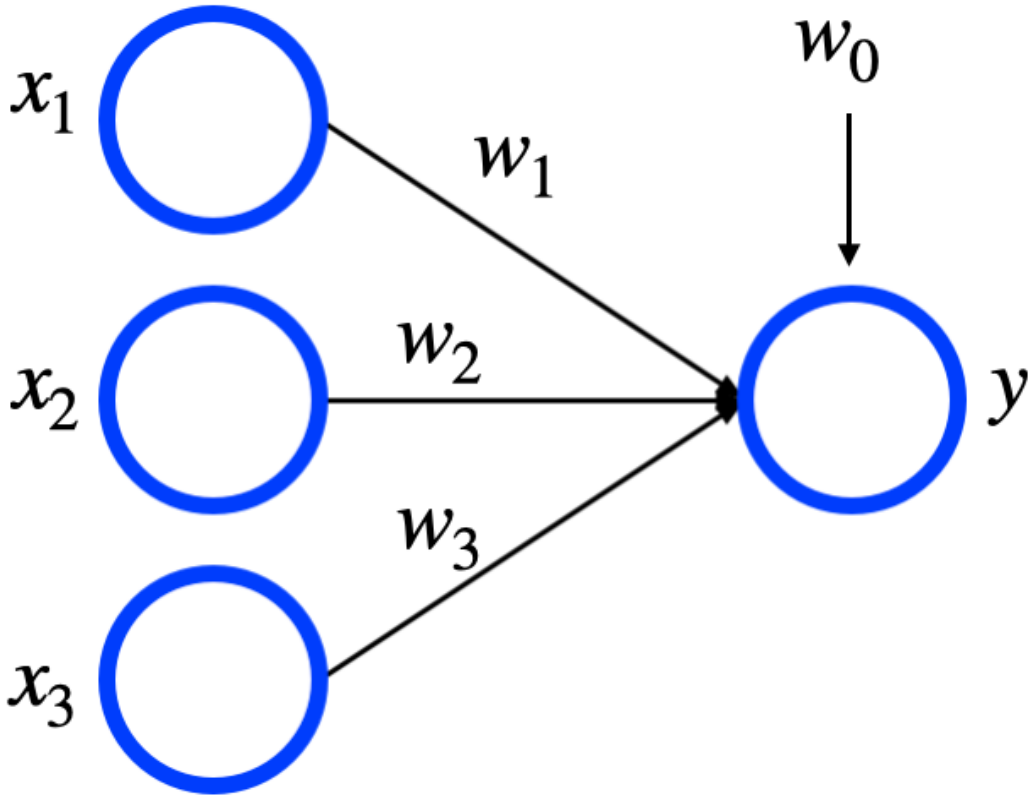
The following question will ask you about the below neural network, where we set w0 = -5, w1 = 2, w2 = -1, and w3 = 3. x1, x2, and x3 represent input neurons, and y represents the output neuron.



✓ What value will this network compute for y given inputs x1 = 3, x2 = 2, and x3 = 4 if we use a step activation function? What if we use a ReLU activation function? * 1/1

- ○ 0 for step activation function, 0 for ReLU activation function
- ○ 0 for step activation function, 1 for ReLU activation function
- ○ 1 for step activation function, 0 for ReLU activation function
- ○ 1 for step activation function, 1 for ReLU activation function
- ◉ 1 for step activation function, 11 for ReLU activation function ✓
- ○ 1 for step activation function, 16 for ReLU activation function
- ○ 11 for step activation function, 11 for ReLU activation function
- ○ 16 for step activation function, 16 for ReLU activation function

How many total weights (including biases) will there be for a fully connected neural network with a single input layer with 3 units, a single hidden layer with 5 units, and a single output layer with 4 units? * 0/1

- [ ] 9
- [ ] 12
- [x] 20
- [ ] 35
- [ ] 39
- [ ] 40
- [ ] 44
- [ ] 60
- [ ] 69

✓ Consider a recurrent neural network that listens to a audio speech sample, and classifies it according to whose voice it is. What network architecture is the best fit for this problem? * 1/1

- One-to-many (single input, multiple outputs)
- One-to-one (single input, single output)
- Many-to-one (multiple inputs, single output) ✓
- Many-to-many (multiple inputs, multiple outputs)

The following question will ask you about a 4x4 grayscale image with the following pixel values.

2	4	6	8
16	14	12	10
18	20	22	24
32	30	28	26

✓ What would be the result of applying a 2x2 max-pool to the original image? * 1/1

Answers are formatted as a matrix [[a, b], [c, d]] where [a, b] is the first row and [c, d] is the second row.

- (●) [[16, 12], [32, 28]] ✓
- ( ) [[16, 14], [32, 30]]
- ( ) [[22, 24], [32, 30]]
- ( ) [[14, 12], [30, 28]]
- ( ) [[16, 14], [22, 24]]
- ( ) [[16, 12], [32, 30]]

Comments, if any