Congratulations! You passed!

Which of the following are true? (Check all that apply.)

1/1 point $oxed{oxed} a_4^{[2]}$ is the activation output by the 4^{th} neuron of the 2^{nd} layer

Correct

 $a^{[2](12)}$ denotes the activation vector of the 2^{nd} layer for the 12^{th} training example.

Correct

 \boldsymbol{X} is a matrix in which each row is one training example.

Un-selected is correct

 $a^{[2]}$ denotes the activation vector of the 2^{nd} layer.

Correct

 $a^{[2](12)}$ denotes activation vector of the 12^{th} layer on the 2^{nd} training example.

Un-selected is correct

X is a matrix in which each column is one training example.

Correct

 $a_4^{[2]}$ is the activation output of the 2^{nd} layer for the 4^{th} training example

Un-selected is correct



1 / 1 point The tanh activation usually works better than sigmoid activation function for hidden units because the mean of its output is closer to zero, and so it centers the data better for the next layer. True/False?

True

Correct

Yes. As seen in lecture the output of the tanh is between -1 and 1, it thus centers the data which makes the learning simpler for the next layer.

False

Which of these is a correct vectorized implementation of forward propagation for layer l, where $1 \leq l \leq L$?

1 / 1 point

 $\qquad \bullet \ \ Z^{[l]} = W^{[l-1]} A^{[l]} + b^{[l-1]}$

 $ullet \ A^{[l]} = g^{[l]}(Z^{[l]})$

 $\bullet \ \ Z^{[l]} = W^{[l]}A^{[l-1]} + b^{[l]}$

 $ullet \ A^{[l]} = g^{[l]}(Z^{[l]})$

Correct

 $\bullet \ \ Z^{[l]} = W^{[l]} A^{[l]} + b^{[l]}$

 $ullet \ A^{[l+1]} = g^{[l]}(Z^{[l]})$

 $\bullet \ \ Z^{[l]} = W^{[l]} A^{[l]} + b^{[l]}$

 $ullet \ A^{[l+1]} = g^{[l+1]}(Z^{[l]})$



You are building a binary classifier for recognizing cucumbers (y=1) vs. watermelons (y=0). Which one of these activation functions would you recommend using for the output layer?

1/1 point ReLU

Leaky ReLU

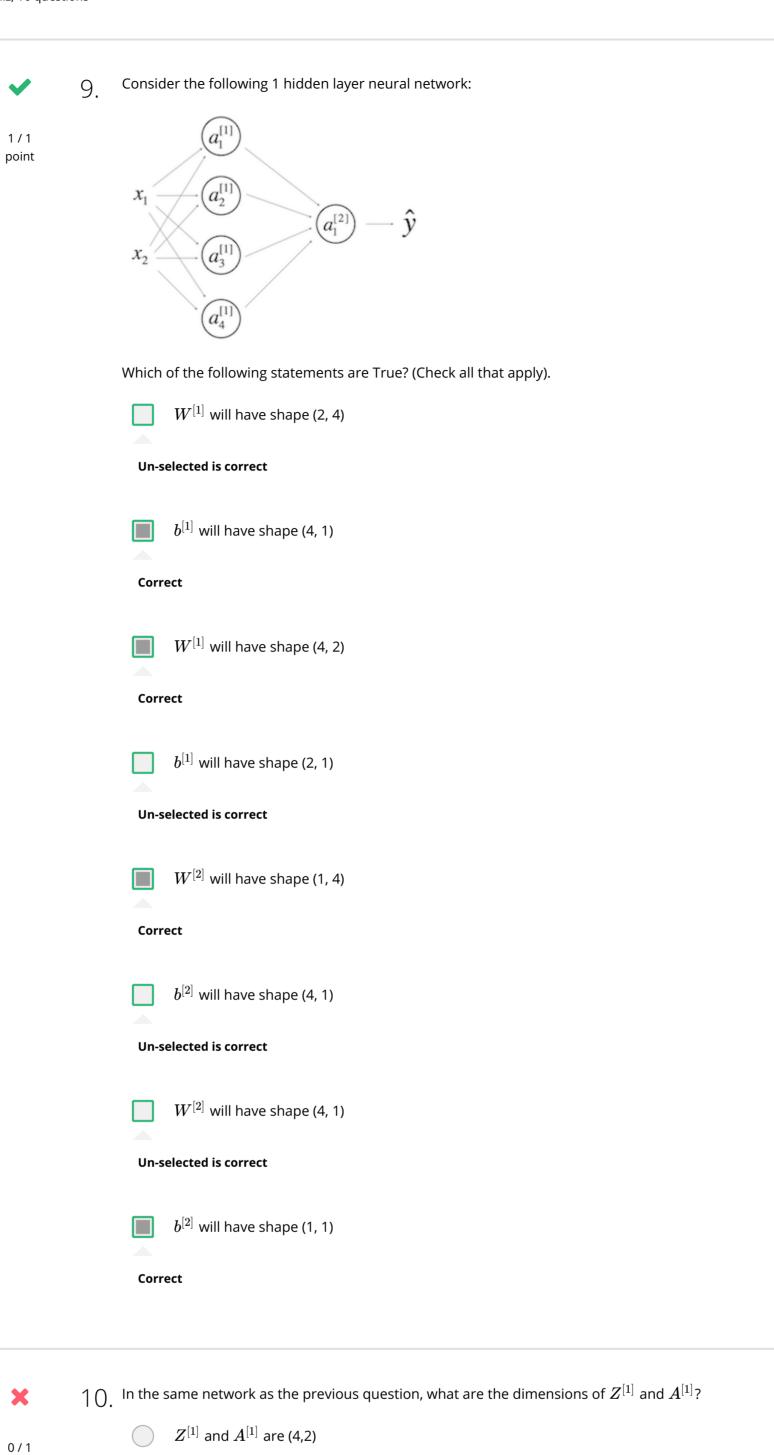
sigmoid

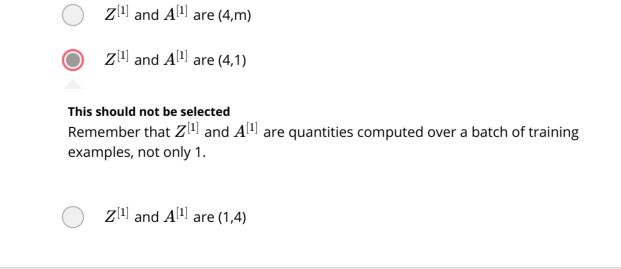
Correct

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Quiz, 10 questions

 \leftarrow







point