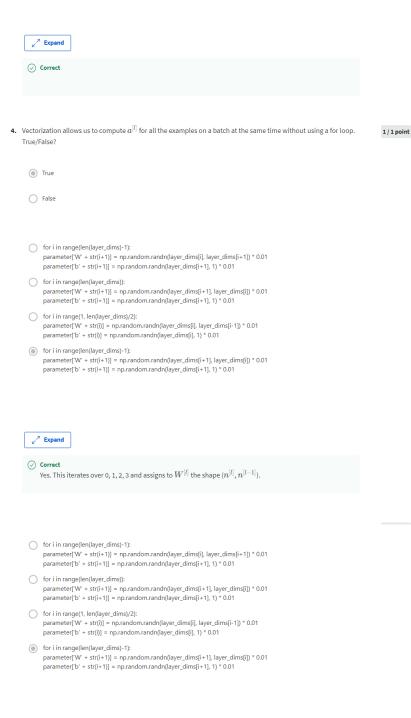
Congratulations! You passed!

Grade received 100% Latest Submission Grade 100% To pass 80% or higher

Retake the assignment in 23h 43m

Go to next item

1.	What is stored in the 'cache' during forward propagation for latter use in backward propagation?	1 / 1 point
	$A^{[l]}$ $Z^{[l]}$ $b^{[l]}$	
	\checkmark Expand \bigcirc Correct Yes. This value is useful in the calculation of $dW^{[l]}$ in the backward propagation.	
2.	Among the following, which ones are "hyperparameters"? (Check all that apply.)	1 / 1 point
	activation values $a^{[l]}$ umber of iterations	
	✓ Correct	
	weight matrices $W^{[l]}$ size of the hidden layers $n^{[l]}$	
	✓ Correct	
	bias vectors $b^{[I]}$ $ extstyle $	
	✓ Correct	
	lacksquare number of layers L in the neural network	
	✓ Correct	
	∠ ^A Expand	
	\odot Correct Yes. This value is useful in the calculation of $dW^{[l]}$ in the backward propagation.	
2.	Among the following, which ones are "hyperparameters"? (Check all that apply.)	1 / 1 point
	activation values $a^{[l]}$ number of iterations	
	✓ Correct	
	$oxed{\ }$ weight matrices $W^{[i]}$	
	$oldsymbol{arphi}$ size of the hidden layers $oldsymbol{n}^{[l]}$	
	✓ Correct	
	$igsquare$ bias vectors $m{b}^{[l]}$	
	lacksquare learning rate $lpha$	
	 The earlier layers of a neural network are typically computing more complex features of the input than the deeper layers. 	
	The deeper layers of a neural network are typically computing more complex features of the input than the earlier layers.	





⊘ Correct

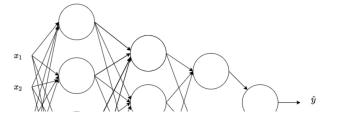
Yes. This iterates over 0, 1, 2, 3 and assigns to $W^{[l]}$ the shape $(n^{[l]}, n^{[l-1]})$.

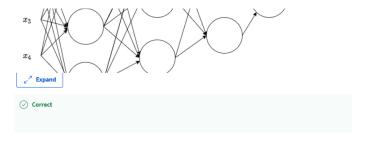
⊘ Correct

Yes. This iterates over 0, 1, 2, 3 and assigns to $W^{[l]}$ the shape $(n^{[l]}, n^{[l-1]})$.

6. Consider the following neural network:

1 / 1 point





8. A shallow neural network with a single hidden layer and 6 hidden units can compute any function that a neural network with 2 hidden layers and 6 hidden units can compute. True/False?

1 / 1 point

- O True
- False

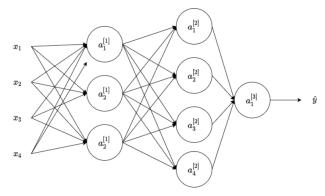
Z Expand

⊘ Correct

Correct. As seen during the lectures there are functions you can compute with a "small" L-layer deep neural network that shallower networks require exponentially more hidden units to compute.

9. Consider the following 2 hidden layers neural network:

1 / 1 point



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

- $\ \ \ \ \ b^{[1]}$ will have shape (4, 1)
- $igwedge W^{[1]}$ will have shape (4, 3) $igwedge W^{[2]}$ will have shape (3, 1)
- $b^{[1]}$ will have shape (1, 3)
- $igwedge W^{[1]}$ will have shape (3, 4)
- .

 $W^{[2]}$ will have shape (4, 3)

 \checkmark Correct $\label{eq:correct} \text{Yes. More generally, the shape of } W^{[l]} \text{ is } (n^{[l]}, \, n^{[l-1]}).$

Yes. More generally, the shape of $W^{[l]}$ is $(n^{[l]},\,n^{[l-1]})$.

 $b^{[1]}$ will have shape (3, 1)

✓ Correct

Yes. More generally, the shape of $b^{[l]}$ is $(n^{[l]}, \, 1)$.

Z Expand

⊘ Correct

Great, you got all the right answers.

1 / 1 point