1. What do you think applying this filter to a grayscale image will do?

1 / 1 point

$$\begin{bmatrix} 0 & 1 & -1 & 0 \\ 1 & 3 & -3 & -1 \\ 1 & 3 & -3 & -1 \\ 0 & 1 & -1 & 0 \end{bmatrix}$$



2. Suppose your input is a 300 by 300 color (RGB) image, and you are not using a convolutional network. If the first hidden layer has 100 neurons, each one fully connected to the input, how many parameters does this hidden layer have (including the bias parameters)?

1 / 1 point

✓ Correct

3. Suppose your input is a 300 by 300 color (RGB) image, and you use a convolutional layer with 100 filters that are each 5x5. How many parameters does this hidden layer have (including the bias parameters)?

1 / 1 point

Correct

4. You have an input volume that is 63x63x16, and convolve it with 32 filters that are each 7x7, using a stride of 2 and no padding. What is the output volume?

1 / 1 point

Correct

5. You have an input volume that is 15x15x8, and pad it using "pad=2." What is the dimension of the resulting volume (after padding)?

1 / 1 point

Correct

	The Basics of ConvNets Coursera 7x7, and stride of 1. You want to use a "same" convolution. What is the paddir	
	✓ Correct	
7.	You have an input volume that is 32x32x16, and apply max pooling with a stri a filter size of 2. What is the output volume?	de of 2 and 1/1 point
	✓ Correct	
8.	Because pooling layers do not have parameters, they do not affect the backpr (derivatives) calculation.	opagation 1/1 point
	✓ Correct	
9.	In lecture we talked about "parameter sharing" as a benefit of using convoluti networks. Which of the following statements about parameter sharing in Contrue? (Check all that apply.)	
	✓ Correct	
10.	^{l0.} In lecture we talked about "sparsity of connections" as a benefit of using conv layers. What does this mean?	olutional 1/1 point

✓ Correct