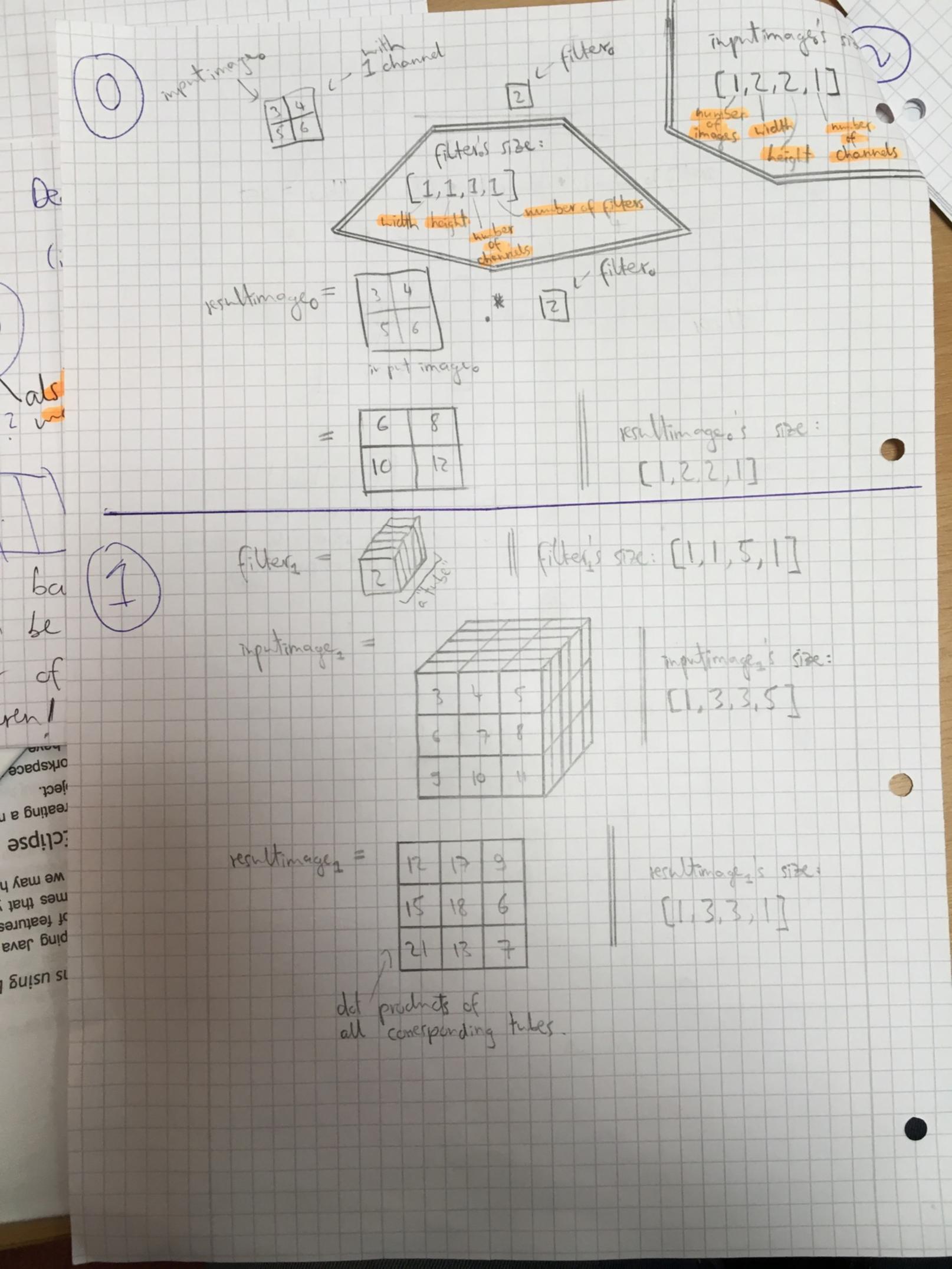
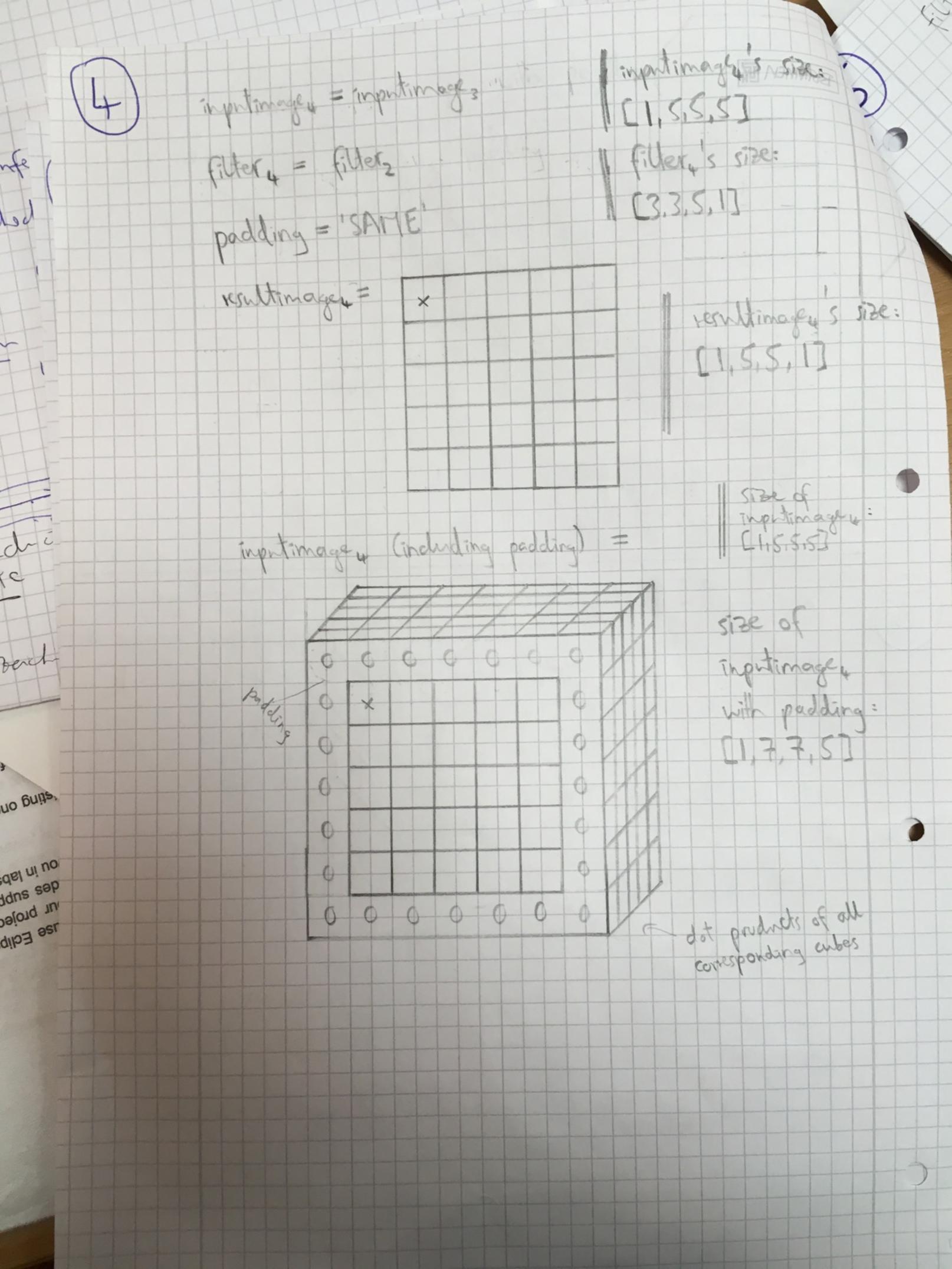
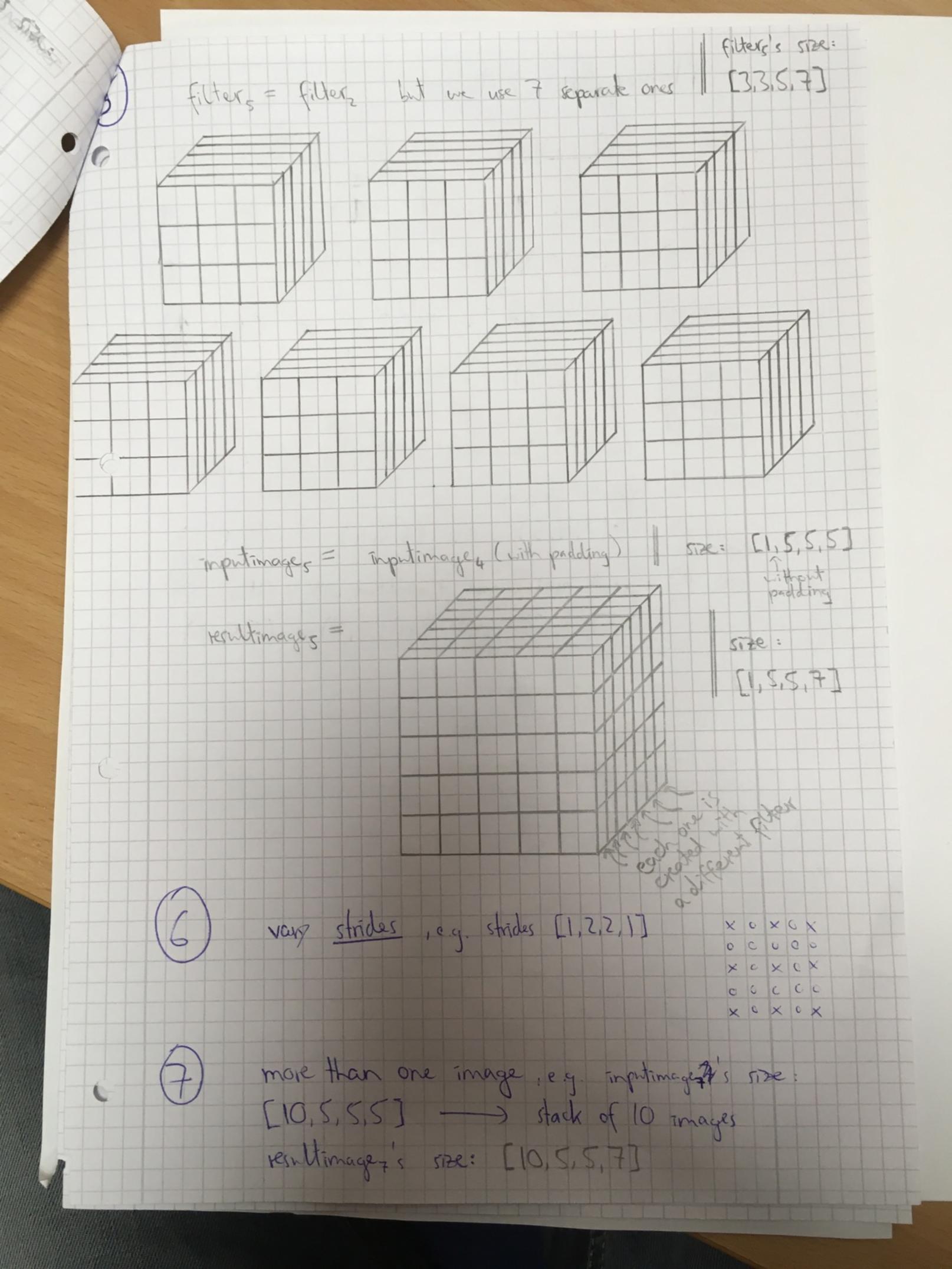
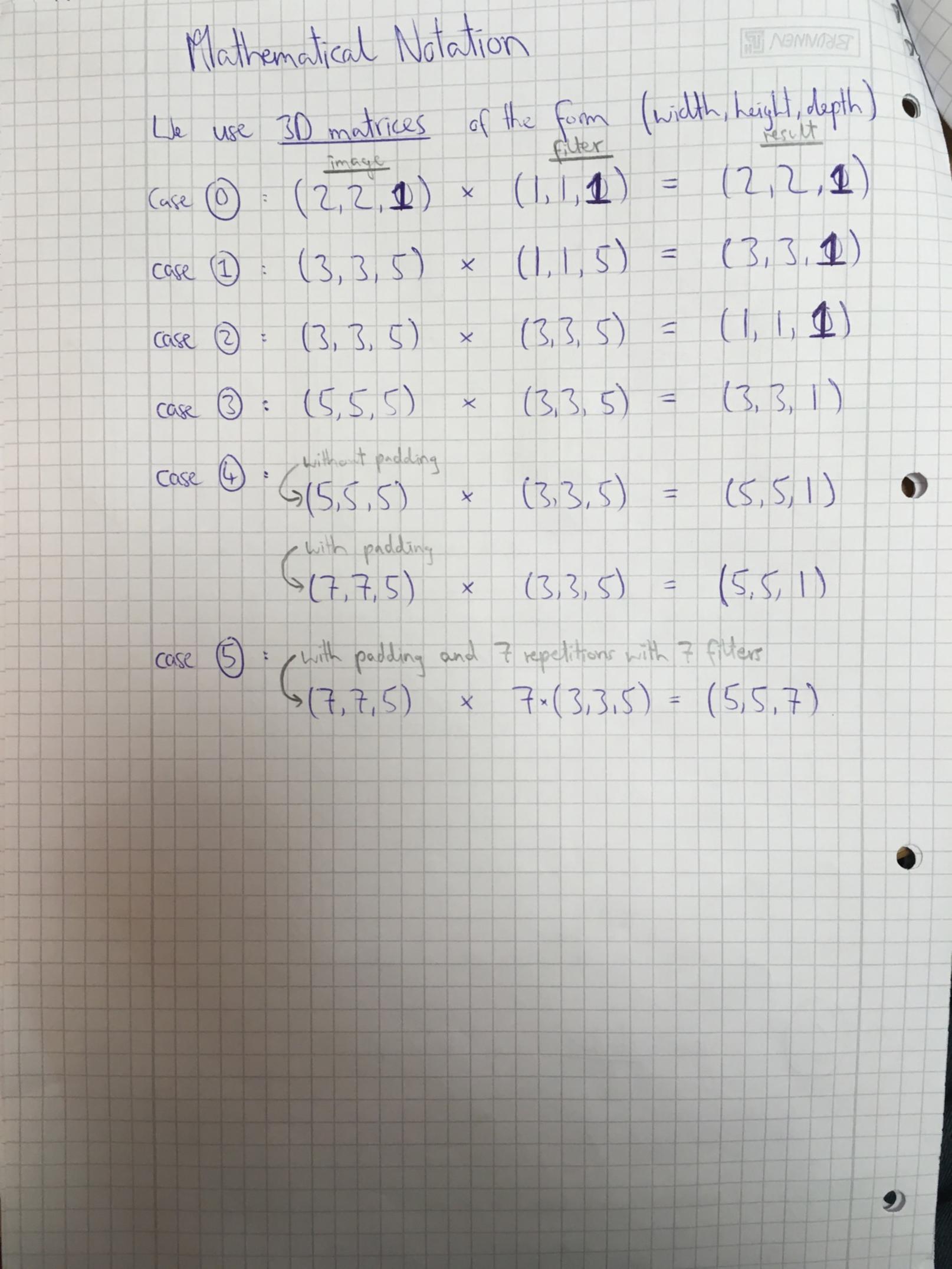
Honn. conv2d (input, filter, strides, padding use_cudnn_on_gpu = None, data-format = None, name = None) this is a tensor of shape in-height height of image in-width of image in_channels | number of channels filter height height of filter this is a kernel tensor of shape filter-width width of filter in channels number of channels out channels number of fitters also the number of channels in result tensor/image result image H.nn. conv2d (input, filter, strides = [1,1,1,1], padding = SAME') could also be or other input = tf. Variable (tf. random_normal ([1,5,5,5])) filter = tf. Variable (tf. random normal ([33,5,7]))



filter = filters's size: [3,3,5,1] inputimenals size: impatimage = inputimage 1 [1,3,3,5] rentimages 5 5120 = resultinages = [1,1,1,1] det-product inputimoge; = imputimage; s size: [1,5,5,5] Ester 2 2136: filter = filter resultimace = regultimagez's size: [1,3,3,1] det products of padding = VALID all conesponding cubes 0







Flatten Filter filter_height -filter width -in channels out channels = [filterheight * filterwidth * m.channels] flatten Form "virtual" tensor batch in-height in-width in-channels batch
out-height
filter-height + filterwidth * in_channels extract image patches

column column vector 40 row vector rector extract > [b | ah | ow | th. fw. ic] (5.p + 5.cp + 5.cm + 5.5) (5.p + 5.cp + 5.cm + 5.5)