Q3 let I be a grandom variable for the intensities of Image I with PMF PT(i) let J be a grandom vaciable for the intensities of Image J with PMF P(j) let the intensities of both images & [0,L-1] Consider Z=I+J (et j=ki=z-kke[2-(1-1), 2] The PMF of 2 is $P_Z(z) = \sum_{k=2-(L-1)} P_{IJ}(z-k,k)$ Since I and I age independent variable $P_{Z}(2) = P_{T}(2) \times P_{T}(2)$

This is the convolution operation that we are current studying in class