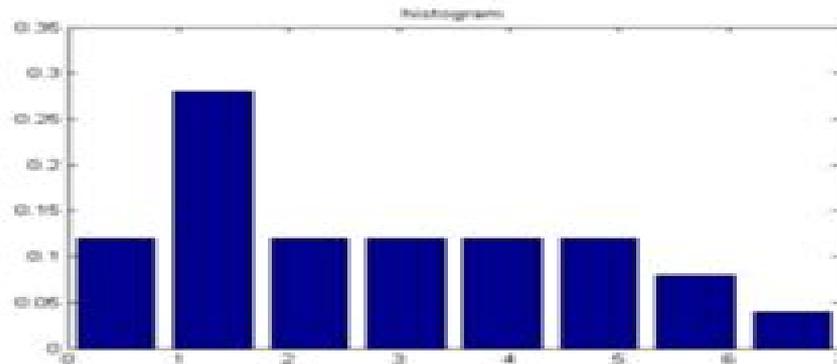


CE 490 Introduction to Digital Image Processing
MIDTERM EXAM SOLUTIONS

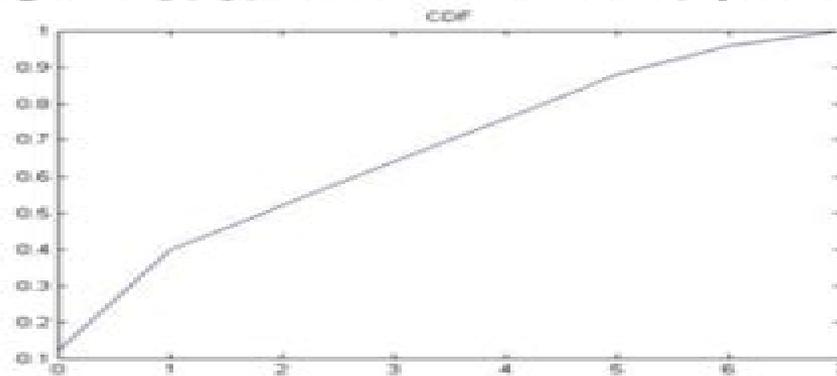
Q1. (25 points) For the following 5×5 image $f(x,y)$ with 3 bits per pixel, i.e. pixel values in $\{0,1,\dots,7\}$:

$$f(x,y) = \begin{array}{ccccc} 0 & 0 & 1 & 1 & 2 \\ 0 & 1 & 1 & 2 & 4 \\ 1 & 1 & 2 & 4 & 5 \\ 1 & 3 & 4 & 5 & 6 \\ 3 & 3 & 5 & 6 & 7 \end{array}$$

(a) compute the histogram of the original image $f(x,y)$.



(b) find a transformation function $g(x,y) = T(f(x,y))$ that will approximately equalize the histogram of $f(x,y)$. Find the transformed (equalized) image, $g(x,y)$.



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Sabine Zange

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