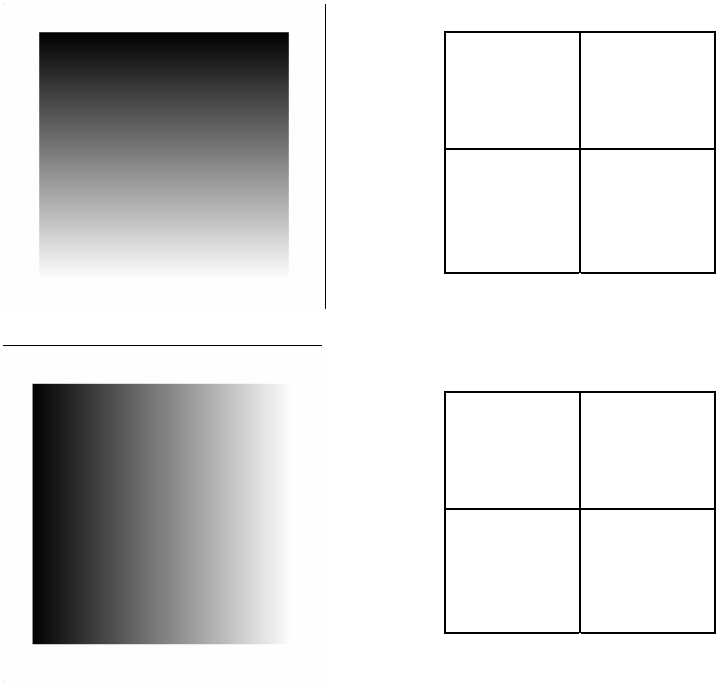
Practice Problems for Wavelets:

1) Work out (convince yourselves) of the example on DWT on the ppt slide. Calculate the distortion (summation of of the square differences between the true and reconstructed values of f(x)).

2) Do the problem 3 in chapter 15. (I will go over the EZW in the next lecture)

3) Roughly sketch the contents of wavelet transform for (LL, LH, HL, HH) of the images below:



4) Consider a function w(x) such that w(x) = 1 for 0.25 <= x <= .75 and w(x) = 0 otherwise. Is it a wavelet function?