MATH 416, Spring 10, HW 6, Due May 11th, 2010

Implement in Matlab the Mallat algorithm for the Daubechies 6 wavelet transform on the sequence $s = \{\sin(2\pi n/512) : n = 0, \ldots, 511\}$. In the resulting sequence, treshold (i.e., set to 0) all the coefficients below $\epsilon = 0.001$. Apply the inverse of the Daubechies 6 wavelet transform to the tresholded sequence, call it s'.

Plot the difference between this new sequence s' and the original sequence s.