
Demo for Q1

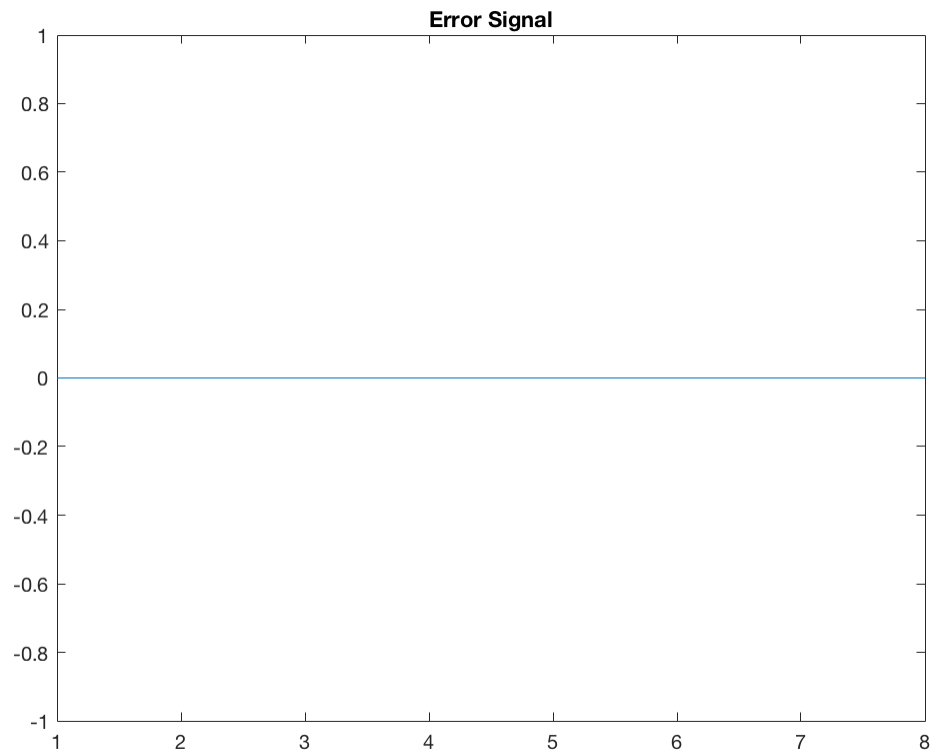
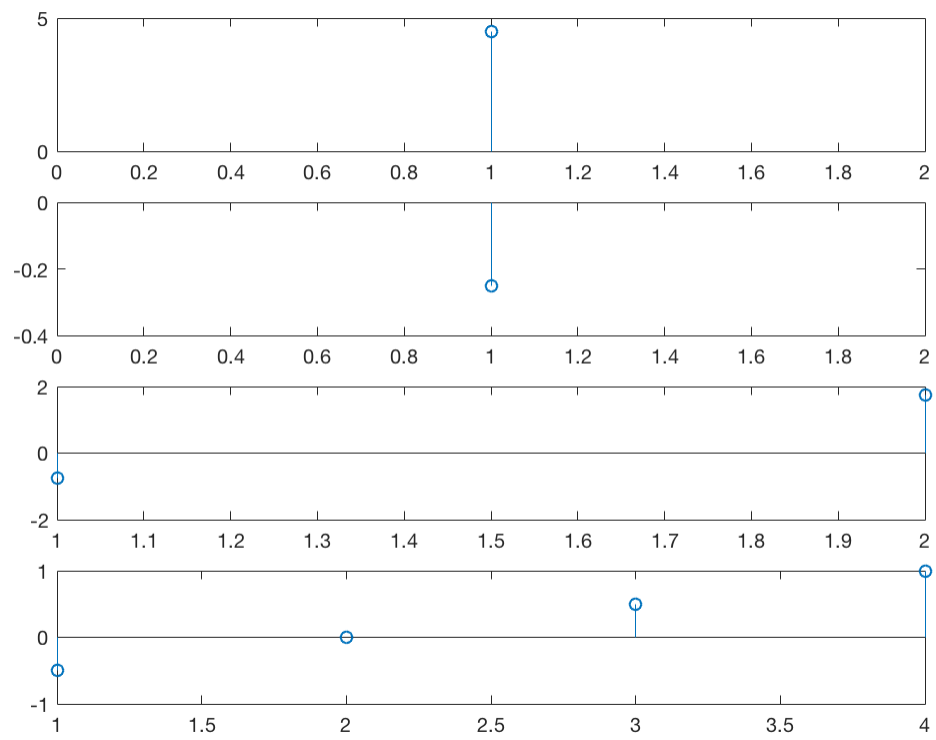
```
% First, let's try the signal in the notes
x = [3 4 5 5 7 6 4 2];
lvl = 3;
w = FHaar(x, lvl);

figure(1)

subplot(411)
stem(w{4})
subplot(412)
stem(w{3})
subplot(413)
stem(w{2})
subplot(414)
stem(w{1})

i = IHaar(w, 3, 8);
figure(2)
stem(i)
plot(abs(i-x))
title('Error Signal')

% We can see from the error calculation and the plot, perfect
% reconstruction is achieved
```



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