Practicum II

Instructor/TA Sign Off Sheet

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 Pract. II, Procedure 1: plots for (a,b,c) _ Record requested comments for (a,b,c)

a) The xl does (ook like a sinusoid. Each cycle takes 0.2 seconds = & seconds or 5tz. This matches the frequency on the spectogram.

Each cycle took place over a period of al seconds = to seconds or .10 Hz. This also matches the frequency on the spectogram there doesn't a ppear to be any discrepancies.

c) For the x3 signal, while it still generally look like a sinusoid, not all the peaks are the same with some of them being lower than others. However, the signal is still periodic. On average, each cycle takes about 0.01 second or for a frequency of about 100 Hz. different from 90 Hz which is the frequency from the spectogram these are a result from higher sampling rate.

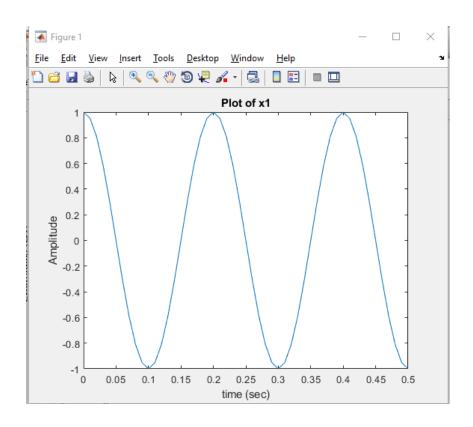
2. Pract. II, Procedure 2(a,b): image plots
Record requested comments for (a,b)

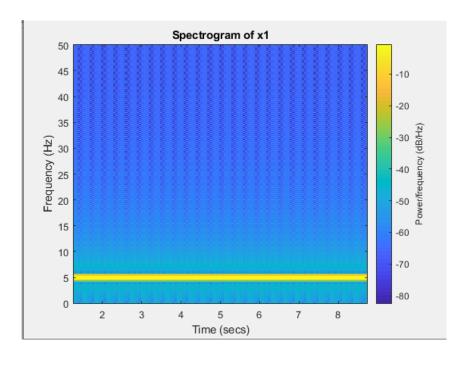
a) When using I mshow (xx3) to display the compressed image, the new image appears to be about 1/9 the size of the original. We can also observe how parts of the picture where many forces are close together. It looks like lower amounts of black pixels in bowsen white ferces results on that part of the image being more affected.

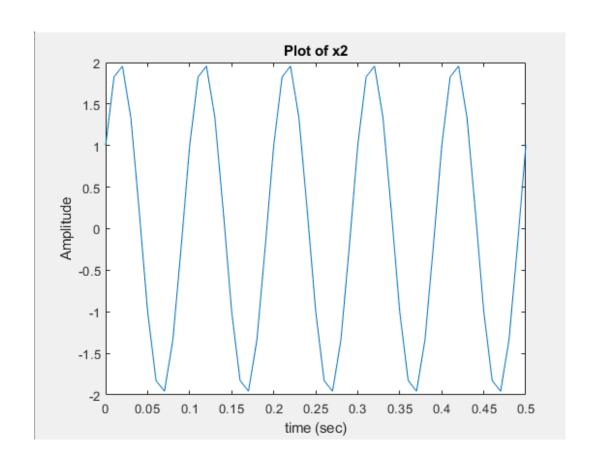
The reconstructed image has a grid of black lines going through it. The gray tones in the reconstructed are also darker. However, the up-scaling makes the reconstructed image the same size as the original

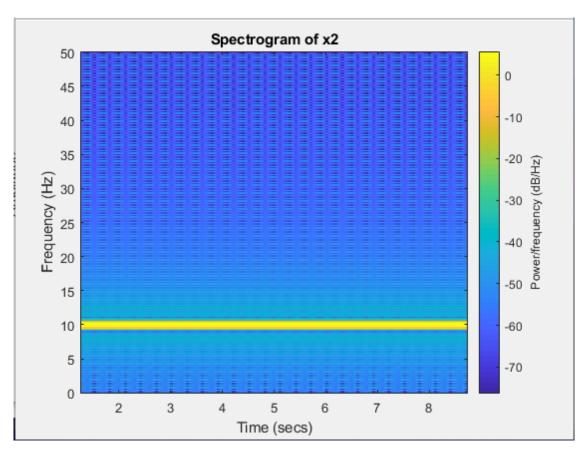
C) Unlike the xxx image, this new up-scaled image doesn't have a black grid, and it also keep the same graytone as the original Like the other up-scaled image, it went back to the same size as the original. It doesn't look like this up-scaling method solved the aliasing effects from the down-sampled image xx3.

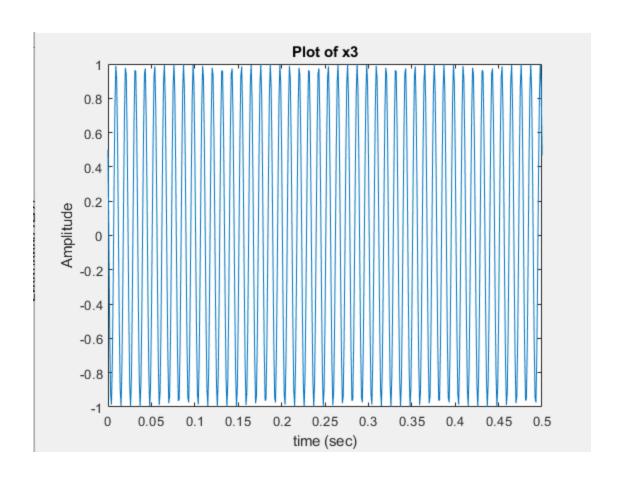
Plots Part A

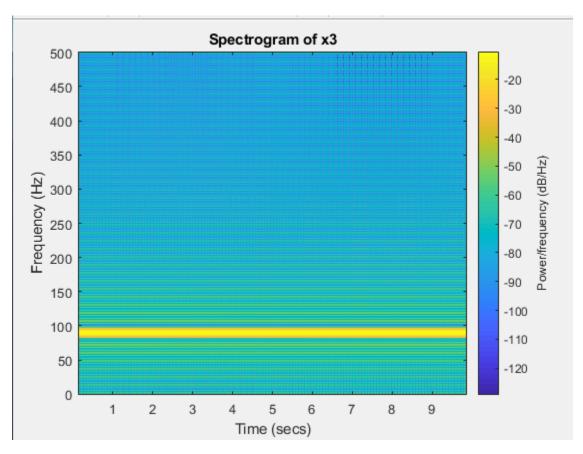












Part 2



