

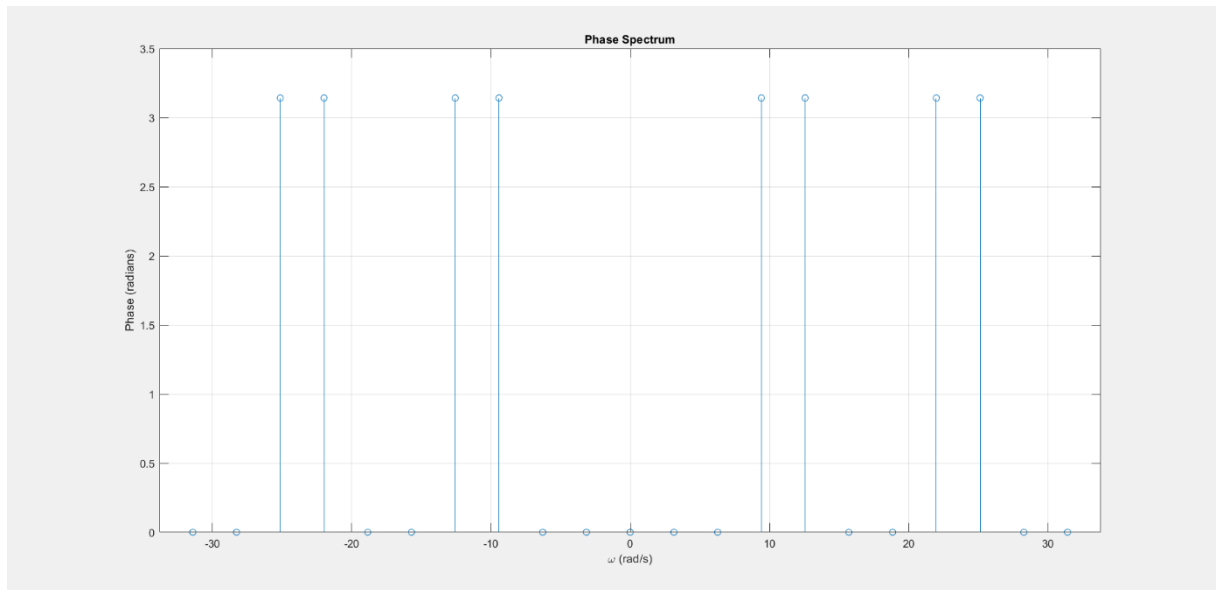
Signals And Systems

Pre Lab 3 Report

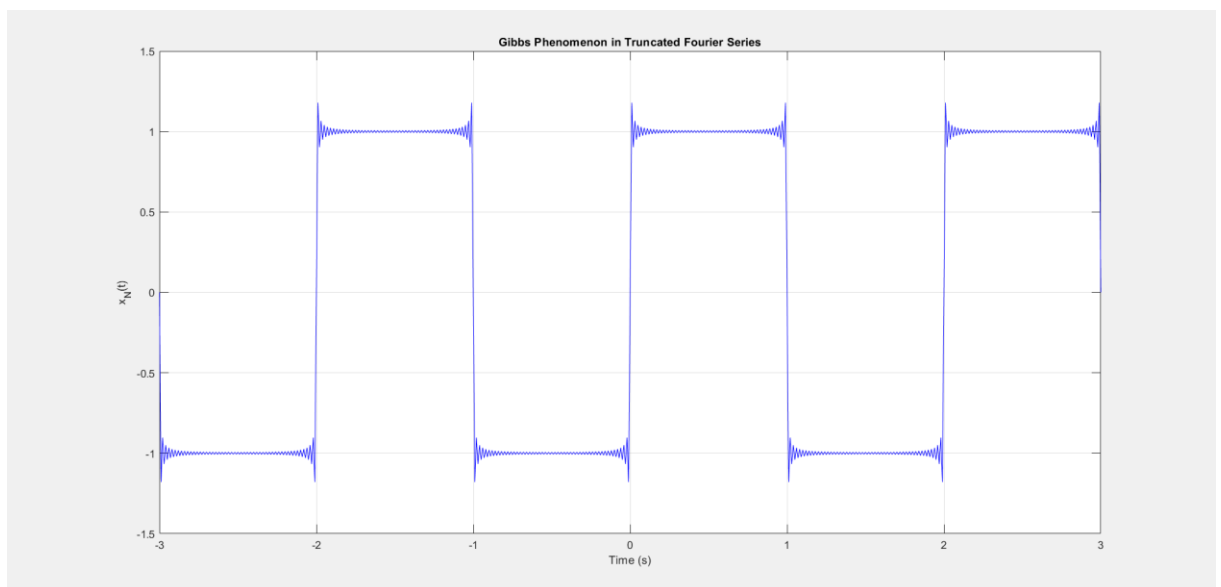
Erkan Tiryakioğlu

150720051

- 1) Use Matlab to perform symbolic Fourier series calculation of the following signal. Plot both the amplitude and phase of the harmonics.

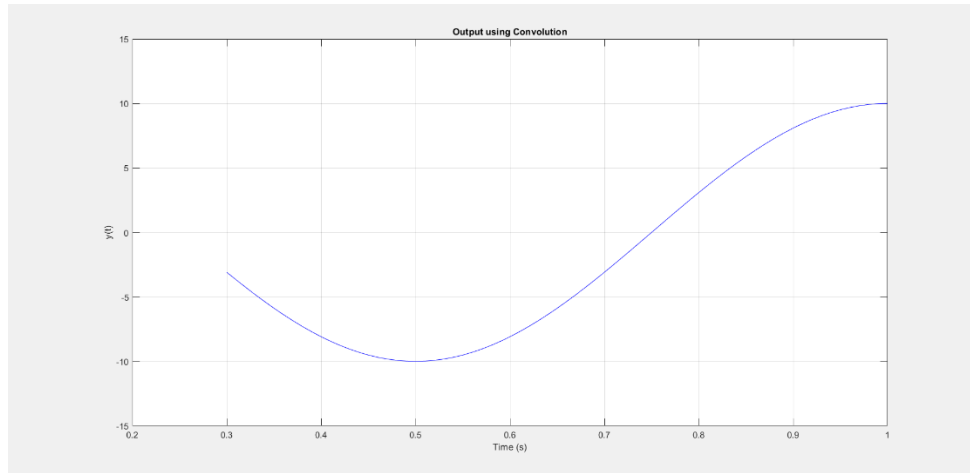


- 2) Let $\{c_n\}$ be the Fourier series coefficients of $x(t)$. Define $x''(t) = \dots$ as a truncated version of the original signal.

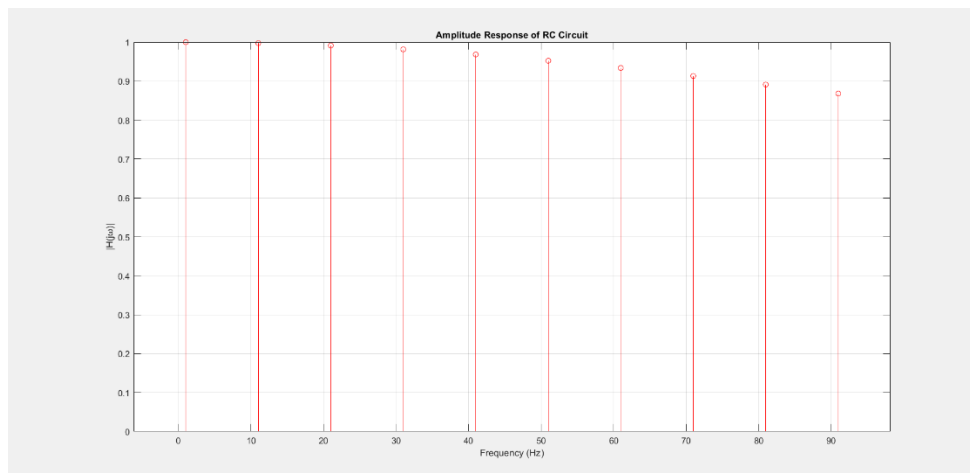


3) For LTI systems with periodic inputs, the output can be calculated in two ways: convolution, or transfer function. We will perform both operations in this part of the lab, and compare their results. Input: $x(t) = \cos(2\pi f_0 t)$

A)



B)



C)

