EE 446: Homework 3

- 1. Solve the following Problems from the textbook.
 - (a) 3.1
 - (b) 3.3
 - (c) 3.11
- 2. Using Matlab
 - (a) generate a signal given by $x(t) = \cos(2\pi f_0 t) \eqno(1)$
 - where $f_0 = 1 \text{kHz}$,
 - (b) compute the analytic signal x_p , and
 - (c) use FFT to show the spectrum of x(t) and $x_p(t)$ (make sure you label the axis correctly with the x-axis being in Hz).