Digital Signal Processing Assignment # 9

- 1. Compute the DTFT (if exist) and N-point DFT of the following signals. With Matlab, plot the DTFT, the DFT when N=10 and N=50.
 - (a) $x(n) = \delta(n-5)$, where N > 5.
 - (b) $x(n) = (-1)^n u(n)$.
 - (c) $x(n) = 4^{-n}u(n)$.
 - (d) $x(n) = [0\ 0\ 1\ 1\ 1\ 1\ 0\ 0]$