EE351 Homework 9

- 1) Find the Fourier transform for each of the functions:
 - (a) $e^{-2t}u(t)$
 - (b) $e^{-2t}u(t-1)$
 - (c) $e^{-|t-2|}$
- 2) Determine the exponential Fourier series for the signal shown in Fig.1.

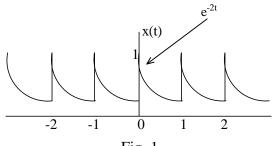
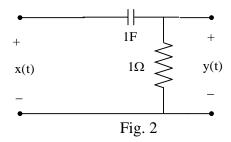


Fig. 1

3) For the circuit in Fig.2. Determine the frequency response $H(j\omega)$.



4)	For the circuit in Fig. 2 and the input voltage $x(t)$ in Fig. 1. Determine the output voltage $y(t)$.