Assignment - V

Class	:	II/IV B.Tech II-Semester
Subject	:	EC 225 - Signals & Systems (Common for ECE, EIE and EEE)
Assignment to be submitted on : 10.02.2014		

- 1) Prove the following properties of the Fourier transform
 - i) Time Scaling
 - ii) Time differentiation
 - iii) Convolution property
 - iv) Time integration
 - v) Differentiation in frequency domain
- 2) Find the Fourier transform of the following signals
 - i) $e^{-|t|}$ ii) u(t) iii) $e^{-t} \sin 5t u(t)$
- 3) Evaluate the Fourier transform of the functions shown in following figures

