



- Q6 a) Explain Hankel transforms and its real life applications.  
b) Use the time convolution to find the inverse of the function.

$$\frac{1}{(iw+k)^2}; k > 0$$

- Q7 Differentiate between wavelet transform and Fourier transform through suitable examples.
- Q8 a) Write short note on the following with examples.  
i) Approximate discrete-time signals using delta function.  
ii) Basic construction by scaling.  
b) Examine the difference between scaling and wavelet function spaces.