1.)



|  |  |  |  |
| --- | --- | --- | --- |
| e=-1.7 | f=1.0 | g=1 | h=0 |

Find the Fourier series (FS) representation of the output y(n) for the following input:



2.)

h(t): 

|  |  |  |  |
| --- | --- | --- | --- |
| a=10 | b=25 | c=0 | d=1 |

(a) Determine the frequency response H(jω) of h(t) utilizing the Fourier (or DTFT) Transform.

(b) Obtain the output response y(t) for the following input using FT :

3.)



|  |  |  |  |
| --- | --- | --- | --- |
| e=-1.7 | f=1.0 | g=1 | h=0 |

Obtain the output response y(n) for the following input using DTFT :

