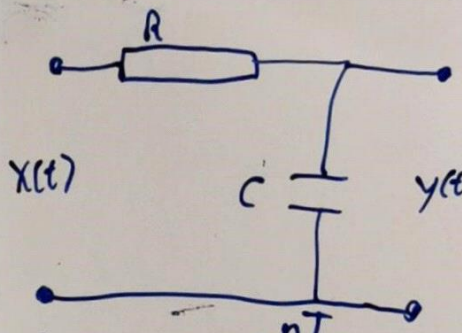

$R = 1000\,\Omega$ $\quad F_s = 8\,KHz$

$C = 1\,\mu F$ $\quad T = \frac{1}{F_s} = \frac{1}{8E3} = 125\,\mu S$

$$H(s) = \frac{1}{1 + sRC} \qquad H(s) = \frac{1}{1 + s \cdot 10^{-3}}$$

$$h[n] = \frac{T}{RC} e^{\frac{-nT}{RC}} \cdot u[n]$$

$n = 0$

$$h[0] = \frac{125E-6}{1E3 \cdot 1E-6} e^{\frac{-0 \cdot 125E-6}{1E3 \cdot 1E-6}} \cdot u[0] = 125 \cdot 10^{-3}$$

$n = 1$

$h[1] = 110.31 \cdot 10^{-3}$

$n = 2$

$h[2] = 97.35 \cdot 10^{-3}$

$n = 3$

$h[3] = 85.91 \cdot 10^{-2}$

$n = 4$

$h[4] = 75.82 \cdot 10^{-3}$