$$h[m] = (\frac{1}{3}) \text{ u[m]} \quad \text{pu[m]} \quad \begin{cases} 1, m > 0 \\ 1, m > 0 \end{cases}$$

$$x[m] = (0)(\frac{\pi}{6}m) + 0,2(p)(\frac{\pi}{16}m)$$
Sabondo que
$$\sum_{k=0}^{\infty} h[k] \cdot A e^{dulo(m-k)} = H(e^{dulo}) \cdot A e^{dulo(m-k)}$$

$$H(e^{dulo}) = \sum_{m=0}^{\infty} (\frac{1}{3})^m \text{ u[m]} e^{dulom} = \sum_{m=0}^{\infty} (\frac{1}{3})^m e^{-dulom}$$

$$H(e^{dulo}) = \sum_{m=0}^{\infty} (\frac{1}{3} \cdot e^{dulom})^m$$

$$H(e^{dulo}) = \sum_{m=0}^{\infty} (\frac{1}{3} \cdot e^{dulom})^m$$

$$H(e^{dulo}) = \frac{1}{1 - \frac{1}{3} e^{-dulo}}$$

$$Querenes y[m] = h[m] * x[m] entae pela sema$$

$$y[m] = H(e^{dulo}) \cdot (0)(\frac{\pi}{10}) + H(e^{dulo}) \cdot 0, 2(eo(\frac{\pi}{10}m))$$

$$1 - \frac{1}{3} e^{d\frac{\pi}{30}} + \frac{1}{5} \cdot (eo(\frac{\pi}{10}m))$$

$$1 - \frac{1}{3} e^{d\frac{\pi}{30}} + \frac{1}{5} \cdot (eo(\frac{\pi}{10}m))$$