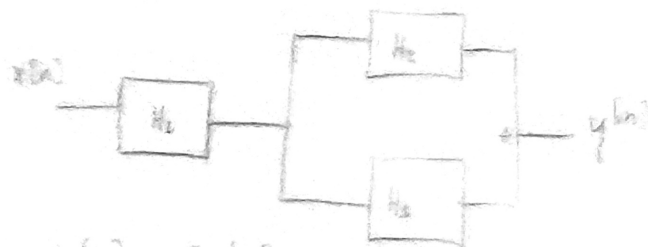




EX) SEJA O SEGUINTE ARRANJO  
DE SISTEMAS.



com  $h_1[n] = \alpha^n u[n]$

$h_2[n] = u[n]$

$h_3[n] = -u[n-1]$

DETERMINE A RESPOSTA AO IMPULSO  
DO SISTEMA EQUIVALENTE



$$h_{eq}[n] = h_1[n] * (h_2[n] + h_3[n])$$

$$h_{eq}[n] = \alpha^n u[n] * \underbrace{(u[n] - u[n-1])}_{\delta[n]}$$

$$h_{eq}[n] = \alpha^n u[n] * \delta[n]$$

$$h_{eq}[n] = \alpha^n u[n]$$