

CONSIGNA CLASE A

$$1. x(t) = \underset{\substack{\uparrow \\ \text{RAMPA}}}{p(t-1)} - \underset{\substack{\uparrow \\ \text{ATRASADO}}}{p(t-2)} - \underset{\substack{\uparrow \\ \text{COMPRESION}}}{2u(t-3)} + \underset{\substack{\uparrow \\ \text{ATRASADO}}}{u(t-4)}$$

$\xrightarrow{\text{RAMPA}} \xrightarrow{\text{ATRASADO}} \xrightarrow{\text{ESLOWDOWN}} \xrightarrow{\text{ESLOWDOWN}} \xrightarrow{\text{ATRASADO}} \xrightarrow{\text{ATRASADO}}$

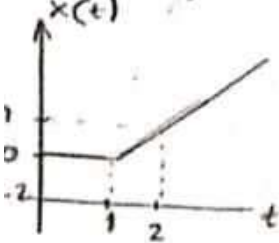
a) $x(t \pm 2)$

Elige $x(t+2)$

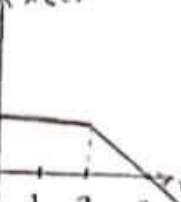
$$x(t) = p((t+2)-1) - p((t+2)-2) - 2u((t+2)-3) + u((t+2)-4)$$

$$x(t) = \underset{\substack{\uparrow \\ \text{RAMPA}}}{p(t+1)} - \underset{\substack{\uparrow \\ \text{ATRASADO}}}{p(t)} - \underset{\substack{\uparrow \\ \text{COMPRESION}}}{2u(t-1)} + \underset{\substack{\uparrow \\ \text{ATRASADO}}}{u(t-2)}$$

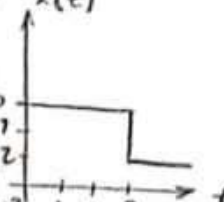
1) $p(t+1)$



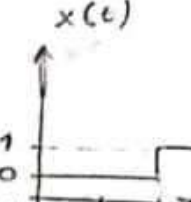
2) $-p(t)$



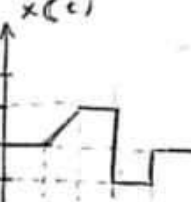
3) $-2u(t-1)$



4) $u(t-2)$



5) $x(t)$

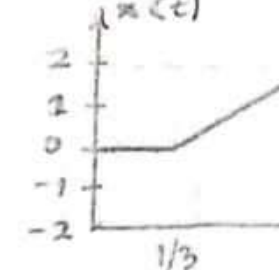


b) $x(3t)$

$$x(t) = \underset{\substack{\uparrow \\ \text{RAMPA}}}{p(3t-1)} - \underset{\substack{\uparrow \\ \text{COMPRESION}}}{p(3t-2)} - \underset{\substack{\uparrow \\ \text{COMPRESION}}}{2u(3t-3)} + \underset{\substack{\uparrow \\ \text{COMPRESION}}}{u(3t-4)}$$

$\xrightarrow{\text{RAMPA ESPEJADA EJE X}} \xrightarrow{\text{COMIENZA EN 2/3}} \xrightarrow{\text{COMIENZA EN 2/3}} \xrightarrow{\text{COMIENZA EN 2/3}} \xrightarrow{\text{COMIENZA EN 2/3}}$

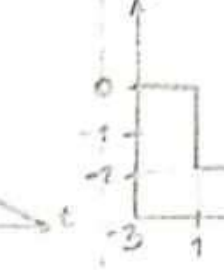
1) $p(3t-1)$



2) $-p(3t-2)$



3) $-2u(3t-3)$



4) $u(3t-4)$

