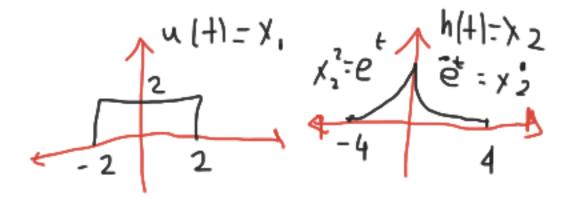
$$x_{1} = 2[\hat{u}(t+2) - \hat{u}(t-2)]$$

$$x_{2} = \begin{cases} 0 & t < -4 \\ e^{-1H} & -4 \le t \le 4 \end{cases}$$

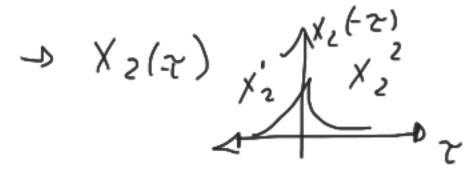
$$x_{1} = \begin{cases} 0 & t < -4 \\ e^{-1H} & -4 \le t \le 4 \end{cases}$$

$$x_{2} = \begin{cases} 0 & t < -4 \\ e^{-1H} & -4 \le t \le 4 \end{cases}$$

$$-y(t) = \int_{-\infty}^{\infty} u(\tau) h(t-\tau) \int_{-\infty}^{\infty} v(\tau) h(t-\tau) d\tau$$

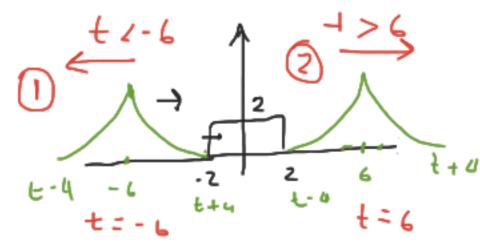


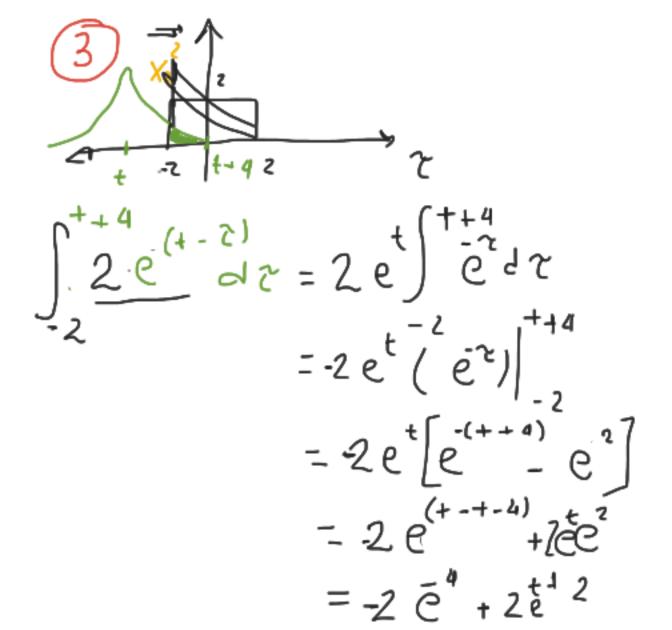
=> Encontror intervolos
ac themps



$$\begin{array}{c} \times 2(t-1) \\ \times 2(t-1) \\ \end{array}$$

-D Definicles intervolos





$$= 93$$
 -64+2
-9(+) = -2e⁴+2e⁺²

4
$$-2e^{t} = 2$$
 $y(t) = 4 - 2e^{(t+2)}$
 $y($

$$y(t) = 4 - 2e^{(t+2)} + 2e^{-2e^{-2}}$$

$$y(t) = 4 - 2e^{-(t+2)} + 2e^{-2e^{-2}}$$

$$= 2e^{-(t+2)} + 2e^{-2e^{-2}}$$

$$= 2e^{-(t+2)} + 2e^{-2e^{-2}}$$

$$= 2e^{-(t+2)} + 2e^{-2e^{-2}}$$

$$= 2e^{-(t+2)} - 2e^{-4}$$

$$y(t) = 2e^{(t-2)} - 2e^{4}$$

$$= \sum_{j=1}^{4} 50 |j| = 2e^{(t-2)} - 2e^{4}$$

$$= \sum_{j=1}^{4} 50 |j| = 2e^{(t-2)} - 2e^{4}$$

$$= \sum_{j=1}^{4} 2e^{(t-2)} - 2e^{4}$$

$$= \sum_{j=1}^{4} 2e^{(t-2)} - 2e^{4} + 2e^{(t-2)}$$

$$= \sum_{j=1}^{4} 2e^{(t-2)} - 2e^{(t-2)}$$

$$= \sum_{j=1}^{$$

$$y_{2} * x_{1}$$

$$y_{1} = \int_{-\infty}^{\infty} y_{2}(x) x_{1}(t-x) d\tau$$

$$y_{1}(x) + y_{2}(x) + y_{3}(x) + y_{4}(x) + y_{5}(x)$$

$$y_{1}(x) + y_{5}(x) + y_{5}(x) + y_{5}(x)$$

$$y_{1}(x) + y_{5}(x) + y_{5}(x)$$

$$y_{2}(x) + y_{3}(x) + y_{5}(x)$$

$$y_{3}(x) + y_{5}(x)$$

$$y_{1}(x) + y_{5}(x)$$

$$y_{2}(x) + y_{5}(x)$$

$$y_{3}(x) + y_{5}(x)$$

$$y_{4}(x) + y_{5}(x)$$

$$y_{1}(x) + y_{5}(x)$$

$$y_{2}(x) + y_{5}(x)$$

$$y_{3}(x) + y_{5}(x)$$

$$y_{4}(x) + y_{5}(x)$$

$$y_{2}(x) + y_{5}(x)$$

$$y_{3}(x) + y_{5}(x)$$

$$y_{4}(x) + y_{5}(x)$$

$$y_{4}(x) + y_{5}(x)$$

$$y_{5}(x) + y_{5$$

1
$$\frac{1}{2} + \frac{1}{2} = 0$$

2 $\frac{1}{2} + \frac{1}{2} = 0$

3 $\frac{1}{2} + \frac{1}{2} = 0$

$$\frac{1}{2} + \frac{1}{2} = 0$$

$$\frac{1}{2} + \frac{1}{2$$

= \ 2e dz + \ 2e dz

- 4-20 _20++2)

-2 < t < 2

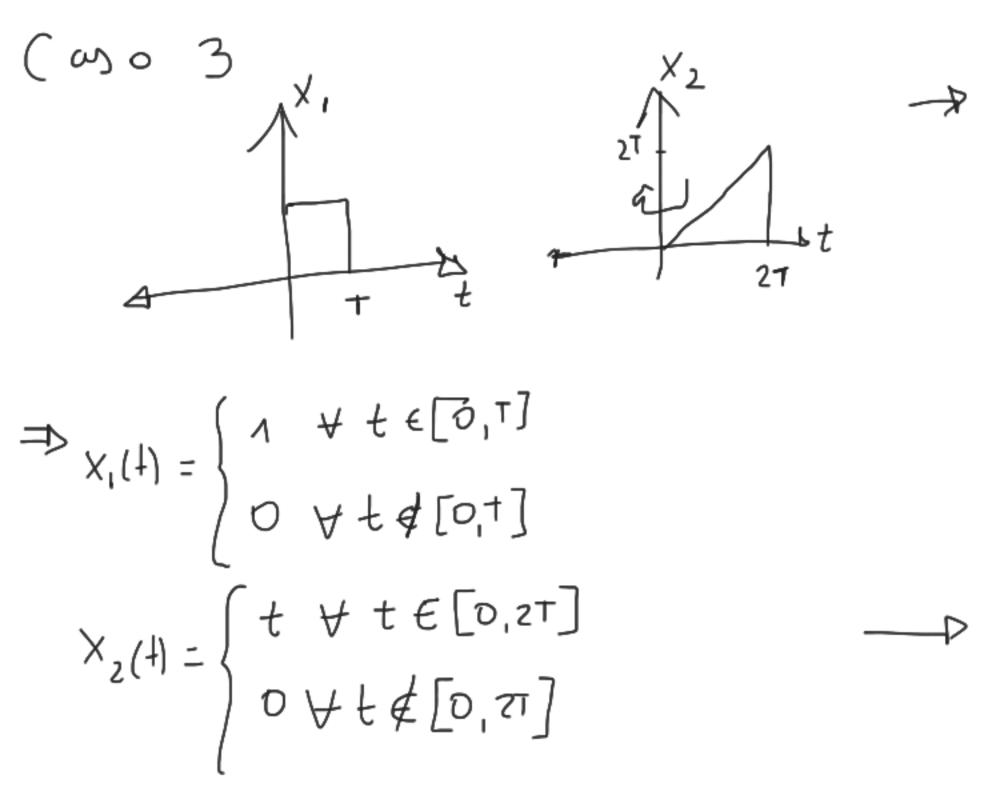
y(+)=4 - ?e - 2e

$$\int_{-2}^{4} 2e^{2t} dt = -2[e^{2t}]_{-2}^{4}$$

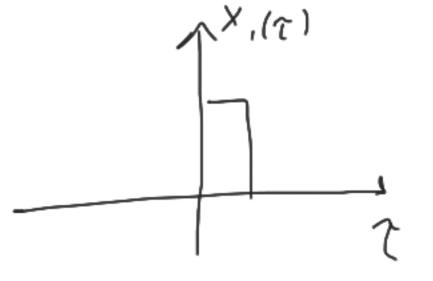
$$= -2[e^{4} - e^{-(t-2)}]$$

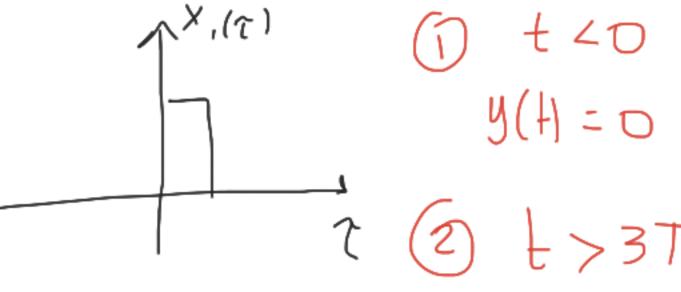
$$= -2[e^{4} + 2e^{t-2}]$$

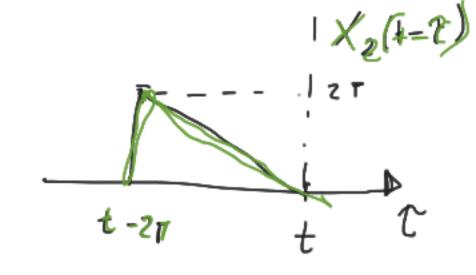
$$5$$
 2<-t <6
 $y(t) = -2e^{4} + 2e^{-(t-2)}$

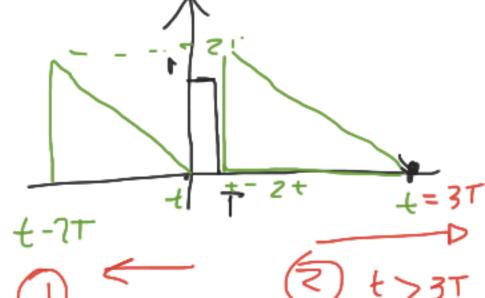


$$(1) = \begin{cases} 1 & \text{if } \text{$$









y(+)=0

$$\frac{3}{1-2T}$$

$$y(t) = (t-T) \cdot T + (t-(t-T)) \cdot T - \frac{1}{2}$$

 $= tT - T^2 + T^2$
 $= tT - \frac{1}{2}$
 $= tT - \frac{1}{2}$

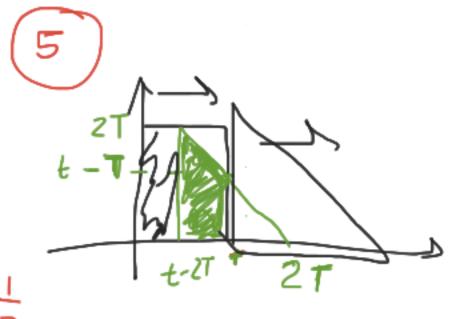
$$y(t) = qT^{2} - 6T^{4} + t^{2} + 4Tf - 3T^{2} - t^{2}$$

$$- qT^{2} - 3Tt - t^{2} + 4Tf - 3T^{2}$$

$$= qT^{2} + Tt - 3T^{2} - t^{2}$$

$$y(t) = -\frac{t^{2}}{2} + Tt + 3T^{2}$$

 $+ 2T + 2T + 2T$



$$\frac{y(t) = (2T - (t - r))(T - (t - r))}{Z}$$

$$+ (T - (t - 2r))(t - T)$$

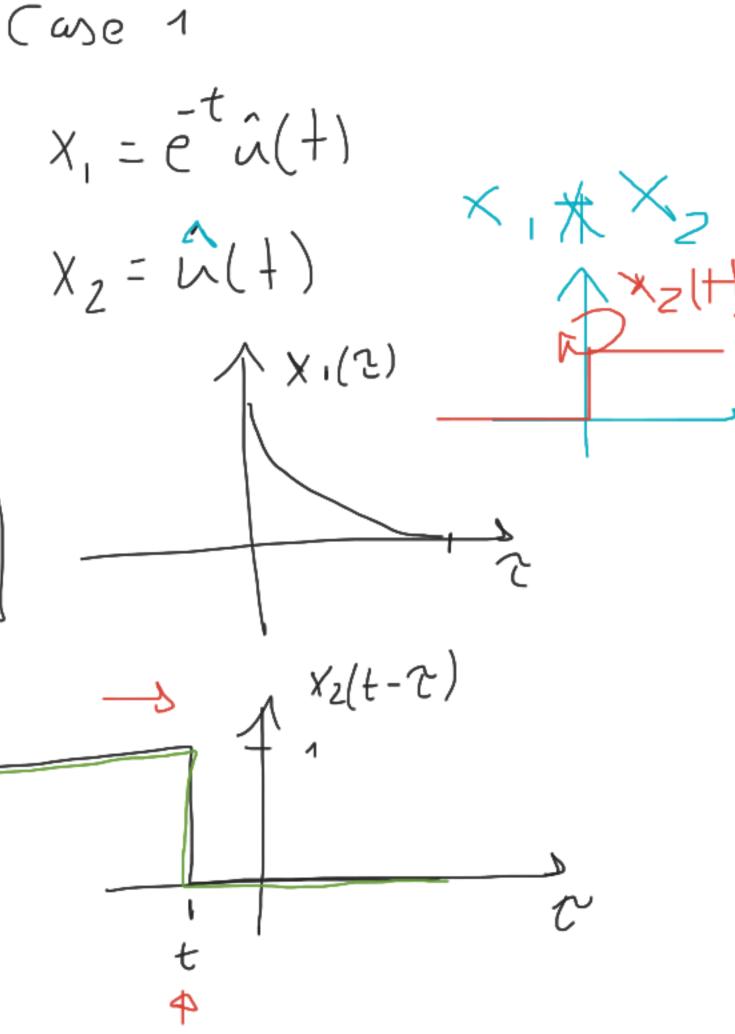
$$y(t) = (3T - t)(3t - t) - \frac{1}{2}$$

+ $(3T - t)(+ - T)$

$$y(t) = \begin{cases} \frac{t^2}{2}, & \forall 0 \leq t < T \\ tT - \frac{T^2}{2}, & \forall T \leq t < 2T \\ -\frac{t^2}{2} + Tt + \frac{3T^2}{2}, & \forall 2T \leq t \leq 3T \\ 0, & \forall t > 3T \end{cases}$$

$$Ver \quad Video (aye 3)$$

$$y(t) = 0$$



$$\int_{0}^{t} e^{t} dt = -e^{t} + 1$$

$$= 1 - e^{t}$$

$$+ + > 0$$

Ver video (a) e 1

$$y(t) = \begin{cases} 0 & \forall t < 0 \\ 1-\bar{e}^t & \forall t \geq 0 \end{cases}$$

Détermine lu estabilidad de y(f) = \int u(2)d2 (1) Encuentre | u respecesta impolso del sistema 'h(t) = $\int_{-\infty}^{\infty} 8(7)d2 = \hat{u}(t)$ Enulse la condición J/h(2)/d2 2.00

 $\frac{1}{\sqrt{2}} \int_{0}^{\infty} \hat{u}(t)dt = \frac{1}{\sqrt{2}} = \infty$ $= \frac{1}{\sqrt{2}} \int_{0}^{\infty} \frac{1}{\sqrt{2}} dt = 0$ $= \frac{1}{\sqrt{2}} \int_{0}^{\infty} \frac{1}{\sqrt{2}} dt = 0$