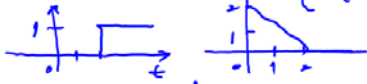


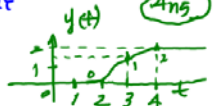
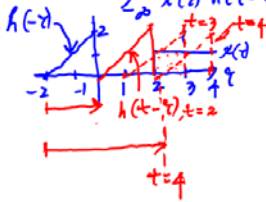
Quiz 2 solution

$$x(t) = u(t-2) \quad h(t) = \begin{cases} 0 & t < 0 \text{ or } t > 2 \\ 2-t & 0 \leq t \leq 2 \end{cases}$$



$$y(t) = x(t) * h(t) = h(t) + x(t)$$

$$= \int_{-\infty}^{\infty} x(\tau) h(t-\tau) d\tau$$



Ans

- For $t < 2$ $y(t) = 0$
- $t = 2$ $y(t) = 1.5$
- $t = 4$ $y(t) = 2.0$
- $t > 4$ $y(t) = 2.0$