

ECE 301 Quiz 2.

6/26 (Fri)

Find $y(t) = x(t) * h(t)$, where

$$x(t) = 1, 0 < t < T_1$$

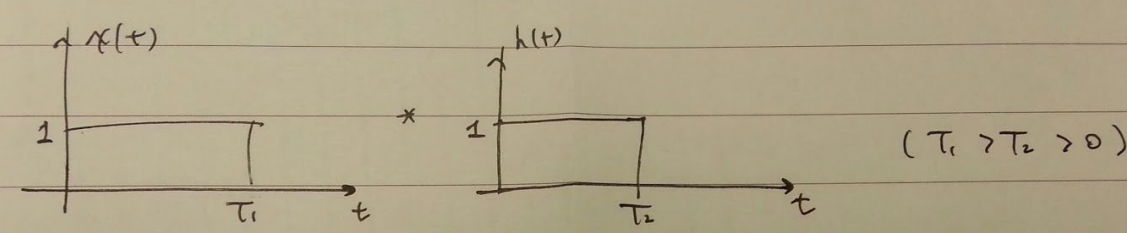
$$= 0, \text{ otherwise}$$

$$h(t) = 1, 0 < t < T_2$$

$$= 0, \text{ otherwise}$$

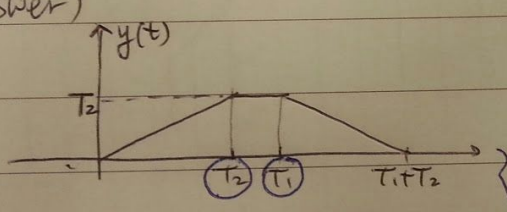
Assume $T_1 > T_2 > 0$. Your answer can be either equations or a graph.

Quiz 2.



$y(t) = x(t) * h(t) = ?$ (equations or graph)

(Answer)



It's important to check if circled values are correct.

$$y(t) = \begin{cases} 0, & t < 0 \\ t, & 0 < t < T_2 \\ T_2, & T_2 < t < T_1 \\ T_1 + T_2 - t, & T_1 < t < T_1 + T_2 \\ 0, & t > T_1 + T_2 \end{cases}$$