



PROBLEM:

A linear time-invariant system has impulse response

$$h(t) = \begin{cases} e^t & 2 < t < 4 \\ 0 & \text{otherwise} \end{cases}$$

The input to this system is $x(t) = u(t - 1)$. Find and plot the output $y(t)$ for $-\infty < t < \infty$.