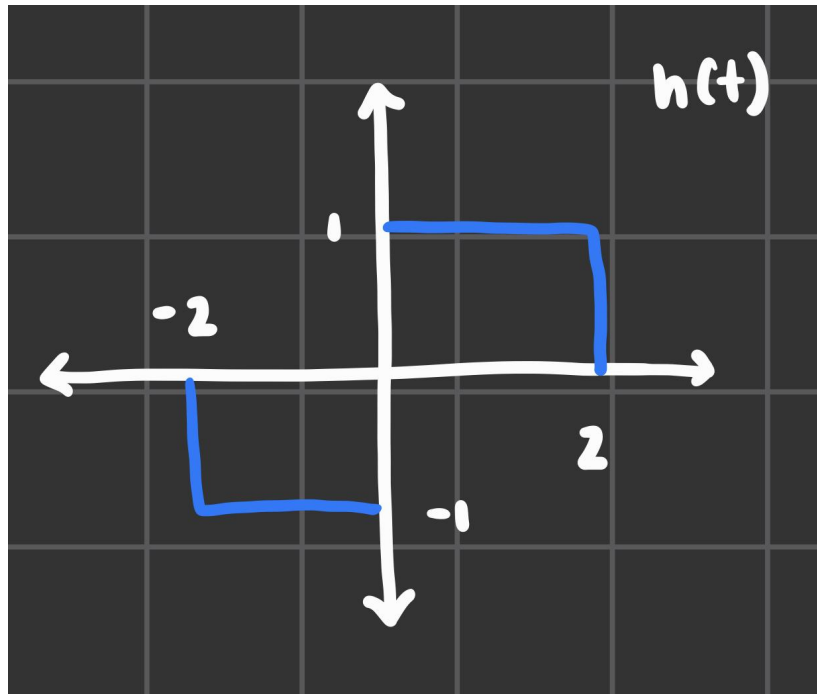


1. Please answer the following questions. Let $h(t)$ be the function shown below



Let $x(t)$ be:
$$x(t) = \sum_{n=-\infty}^{\infty} (-1)^n \delta(t - nT)$$
, where T is a constant

- Please sketch $x(t)$ and label T along the x axis
- Calculate and sketch $y(t) = x(t) * h(t)$ for $T = 4$
- Calculate and sketch $y(t) = x(t) * h(t)$ for $T = 2$
- Does the impulse response $h(t)$ correspond to a causal system? Justify