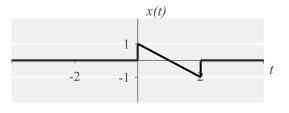
Question #1: Consider the following signal continuous-time signal x(t) and LTI system with impulse response h(t). Assume the zeros continue forever for $t \to -\infty$ and $t \to \infty$.





(a) Sketch the system output y(t) = x(t) * h(t).

(b) Sketch y(t) = h(t) * h(-t).

(c) Is the system with impulse response h(t) causal? Is it memoryless?

Question #2: Consider the following continuous-time signal x(t) and LTI system with impulse response h(t). Assume the zeros continue forever for $t \to -\infty$ and $t \to \infty$.



(a) (4 pts) Sketch the system output y(t) = x(t) * h(t).

(b) (4 pts) Sketch y(t) = h(t) * h(-t).

(c) (2 pts) Is the system with impulse response h(t) causal? Is it memoryless?