Lecture 12 Continuous-Time Signals

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EE 313 Linear Systems and Signals The University of Texas at Austin

Causal system : only depends the current input, post inputs, and post outputs

Causal signal : Amplitude values are zero before time zero

causal signal

causal signal

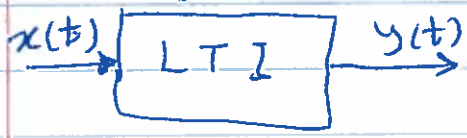
discrete-time

h[n] causal signal

Impulse Response

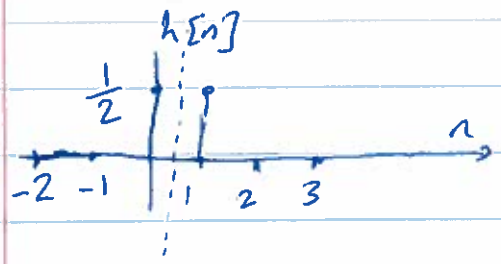
$y(t) = x(t) * h(t)$

continuous-time



h(t)

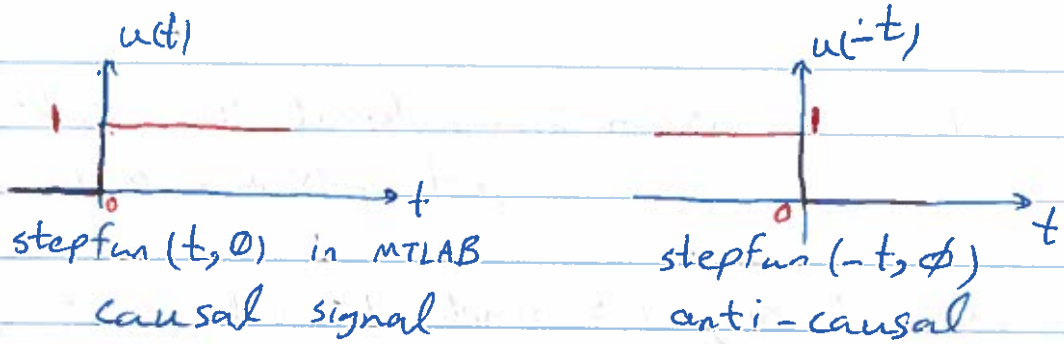
Impulse Response



even symmetry around midpoint

Unit step

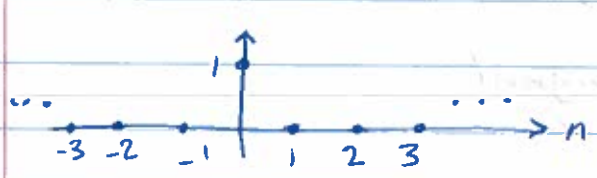
stepfun(t, t0) → $t \geq t_0$ true or false in matlab



stepfun(t, 0) in MTLAB
causal signal

stepfun(-t, 0)
anti-causal

Discrete-Time Impulse



Continuous-Time Impulse