

$$x(t) = 2 \left[ \frac{t}{t+1} \right] + x(t-1)$$

- MEMORYLESS? Causal? Linear?
- Time invariant
- bibb stable?

$$y(t) = \int_{-\infty}^t x(\tau-5) d\tau$$

- ~~impulse response~~ impulse response of H
- if input of system is  $x(t) = e^{-t} u(t-1)$ , output?
- step response

$y[n] = 2x[n] + x[n-1]$  Find output when  $x[n]$  is input

- Find & sketch response of H
- if input is  $x[n] = n \times (u[n+1] - u[n-1])$   
Find. (just values)

Sketch the signal

$$x(t) = u(t+5) - 2u(t) + u(t-5)$$

Sketch the signal

$$x[n] = u[n+2] - u[n-3]$$