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1.1

+ A >0: The system is not causal because y(t) depend on judical input + A <0: The system is causal

+ B = -1: the system is causal

+ 13 >,0: The system is not causal because yet depend on judice input

+ B (-Z: the system is not causal because y(t) depend on june input jor t=0

+ C20: the system is causal

+ ((O: the system is not causal because y[h] depend on judice input

+ D < 0: the system is causal

+ 070: The system is not causal because y[h] depend on judure input 1.2

- . A system is memory less is the output at time to only depends on the input at time to
- . The above system is not memory less because the output voltage of capacitor at time to depends on the past current:

$$u(t) = Ri(t) + v(t)$$

$$= R.C. \frac{dv(t)}{dt} + v(t)$$