Env. Linear System System  $\rightarrow y(t)$ U,(t) -> 4,(t) u(-t) output U2(t) → 42(t) input Tamporaly Causal au((t)+ be2(t) -> ag,(t++by2(t) X(t) < Summary of all the metory of the ay with t y(t1) /u nt)  $y(t_2)$   $t_2>t_1$ y (t) < · Utz -> y(tz)  $\Rightarrow$ | $\chi(t_1), u_{t_1}$ 

 $(u(t)) = \begin{cases} 2 & q_{s}sm(i+t) + b_{s}cos(i+t) \\ continuous \end{cases}$   $(ontinuous) \qquad (ct) \qquad \qquad (ct) \qquad \qquad (ct) \qquad \qquad (ct)$