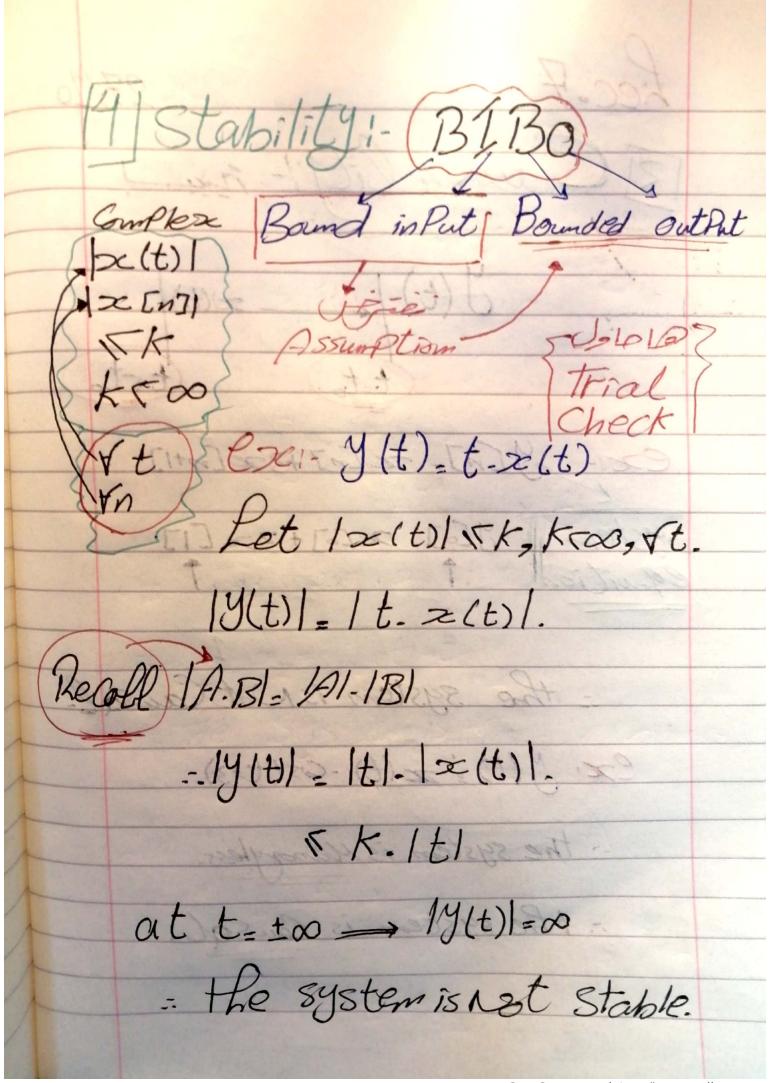
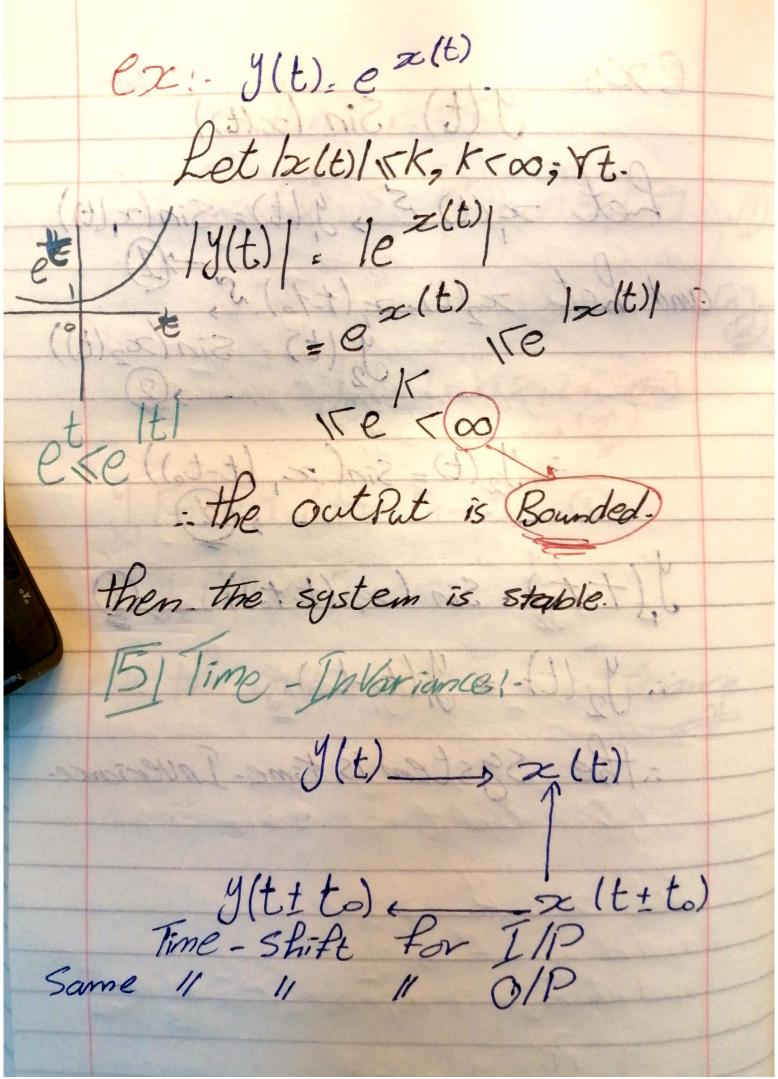
Lec.7 31 Causality!- mu  $\infty(t)$ J(t) |teto ez: y[n] = z[n] +3 z[n+1] System y [3], ze[6] + 3 ze[1]
equition t : the system is Not Causal. ex. y(t) = z(t) - Gs(t+3). .: the system is Memoryless. - the system is Cousal.





ex: y(t)=Sin(x(t))Let = (t) 5, y, (t) = Sin(x, (t)) and Let  $z_2(t) = z_1(t-t_0) \cdot S$ ,  $(z_2(t))$   $y_1(t) = Sin(z_2(t))$  $= y_2(t) = \sin(z, (t-t_0))$ J. (+-to): Sin (z, (+-to)) \_\_\_\_, 3 :.  $y_2(t) = y_1(t-t_0)$ -. the System is time-Inverience Some Hill Holle

