

$$h(t, \tau) \rightarrow h(T_0, \tau)$$

impulse launch
instant

$$v_i = \gamma_0 \delta(t - \tau)$$

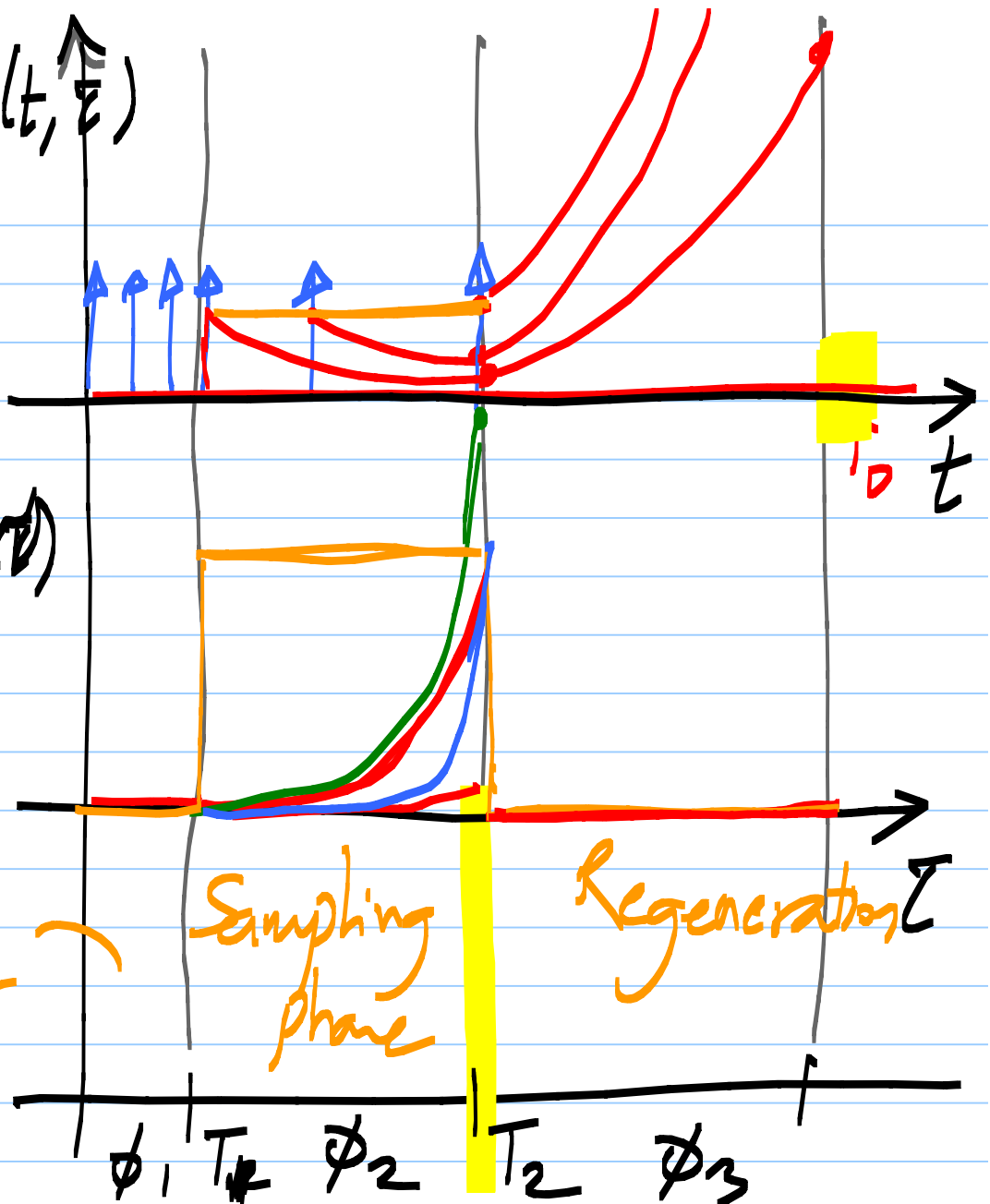
v.s

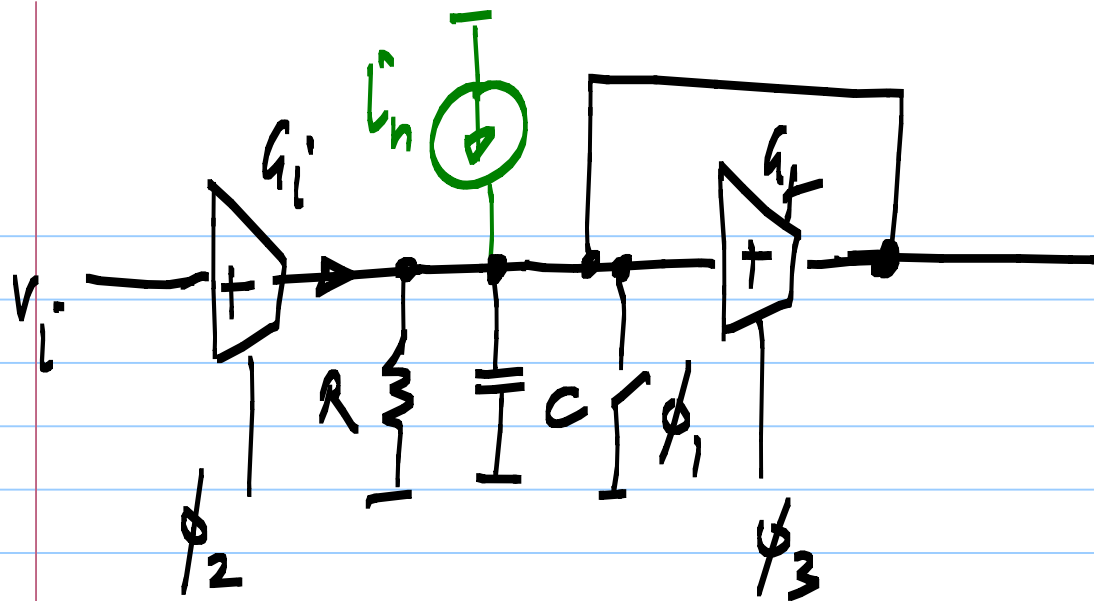
$$\frac{y(t)}{\gamma_0}$$

$$h(t, \tau)$$

$$h(T_0, \tau)$$

reset





$$v_{i-} = \psi_0 \cdot \delta(t - \tau) \quad \tau \in \phi_2$$

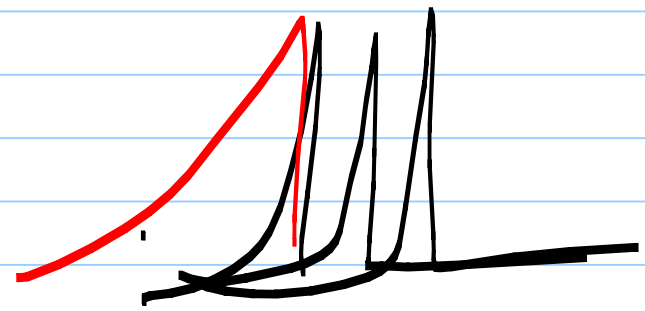
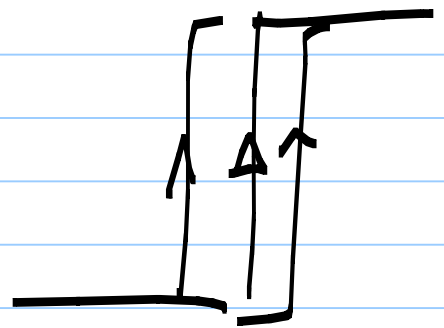
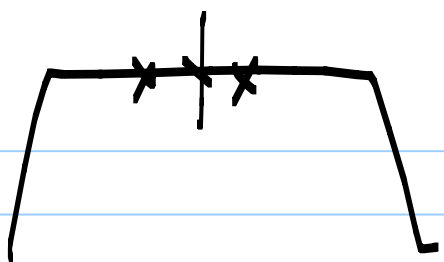
$t \in \phi_3$

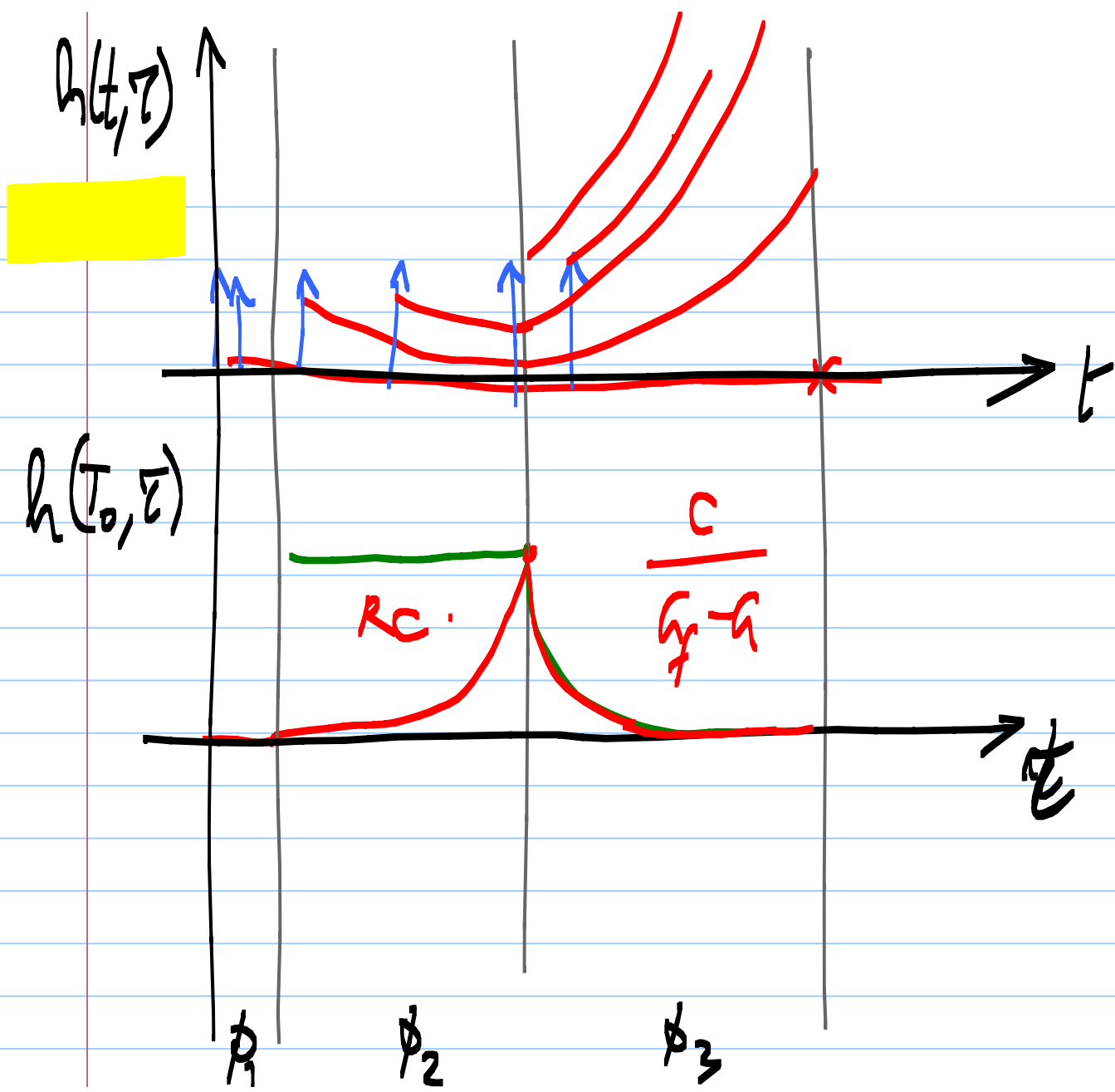
$$\frac{g_{m2} \psi_0}{C} \exp\left(-\frac{(T_2 - \tau)}{RC}\right)$$

$$\exp\left(\frac{g_{m2} - g}{C} \cdot (t - T_2)\right)$$

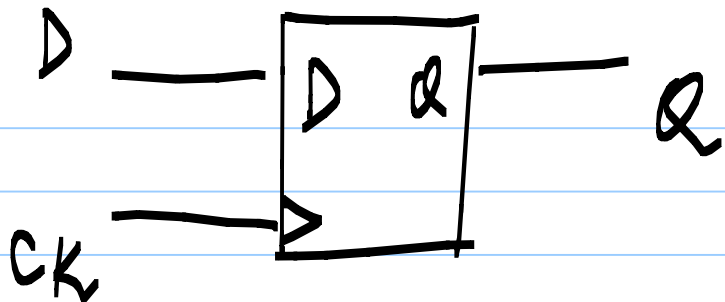
$$\frac{g_{m1} \psi_0}{C} \cdot \exp\left(-\frac{(t - \tau)}{RC}\right); \quad t \in \phi_2$$

V_L



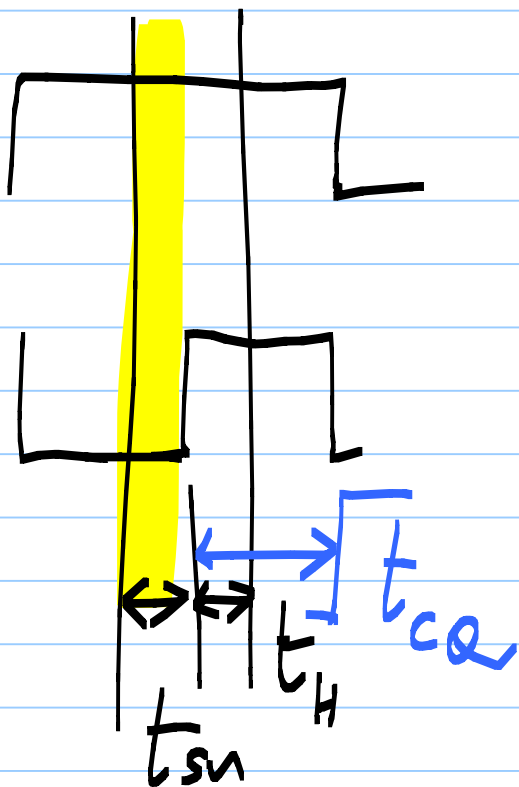


in an input
 $i_n = \underbrace{g_0 \delta(t - T)}_{\phi_2}$
 $\phi_2 = \frac{1}{C} \exp\left(-\frac{t - T}{RC}\right)$
 $\phi_3 = \frac{1}{C} \exp\left(-\frac{T_2 - T}{RC}\right)$
 $\exp\left(\frac{\gamma - g}{C} (T - T_2)\right)$



t_{su} : setup time
 t_{H} : hold time

t_{cq} : clock-to-Q delay



$h(T_0, T)$:

