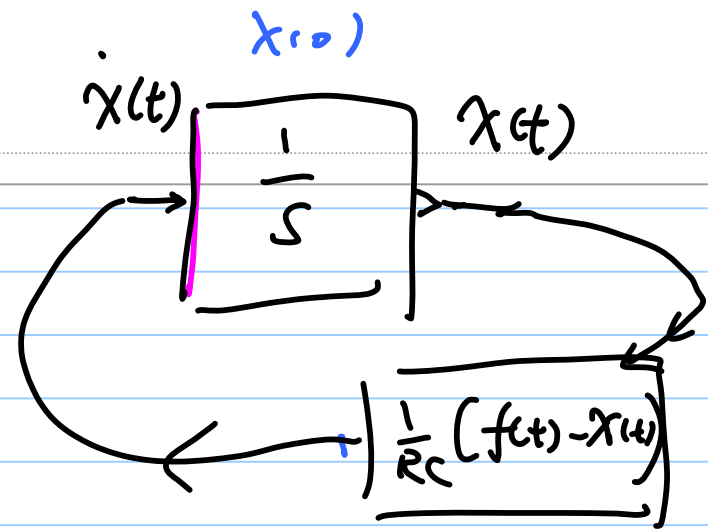
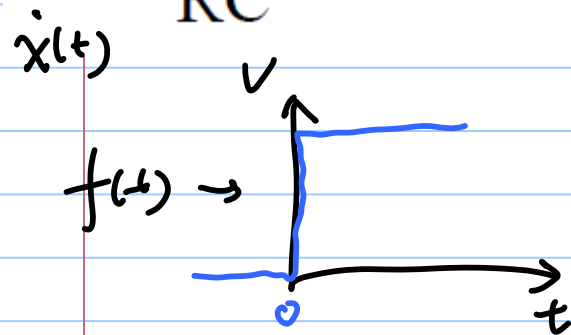
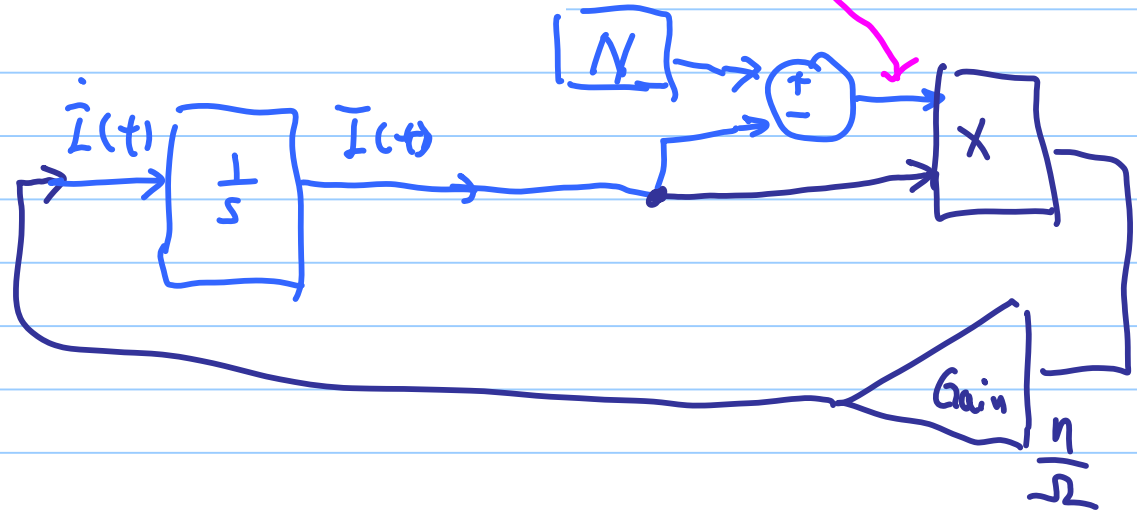


$$\dot{x} = \frac{1}{RC} [f(t) - x]$$



$$\frac{dI(t)}{dt} = \frac{\eta}{\Omega} I(t) \cdot [N - I(t)]$$



$$I(t) = N - S(t) - R(t) - Q(t)$$