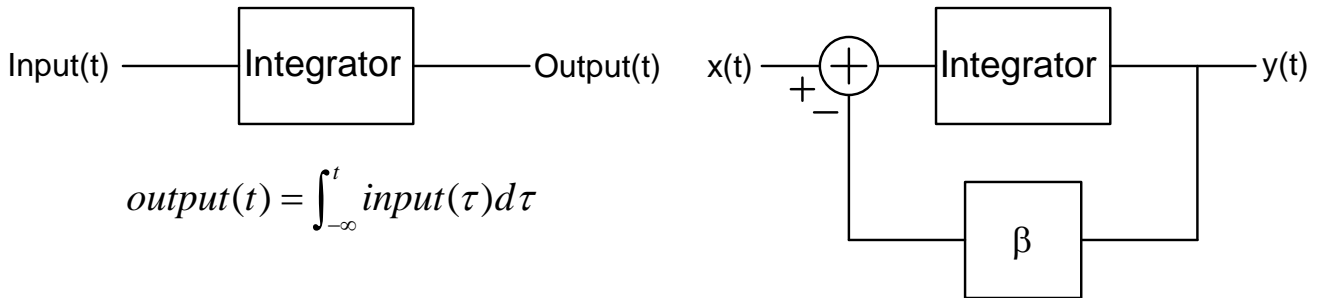
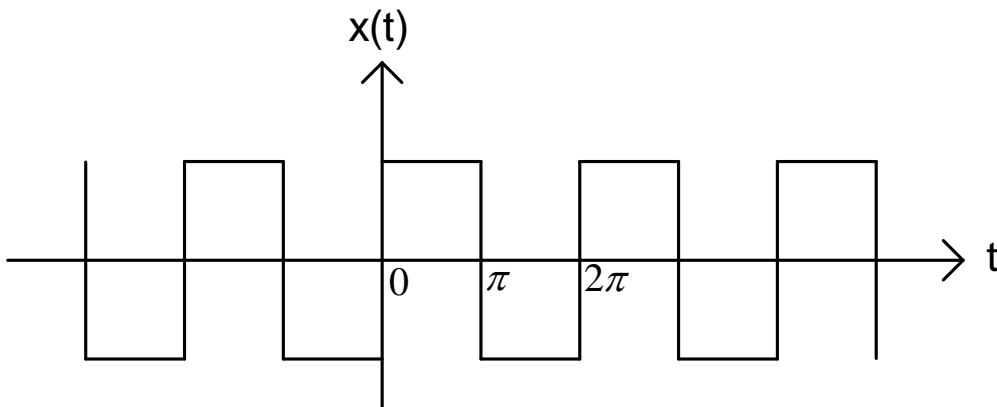


Homework #06



1. Find the differential equation for this feedback system.
2. Find $h(t)$ for $\beta=0.1$, $\beta=1$, and $\beta=10$. Plot them in Matlab.
3. Find $H(f)$ for $\beta=0.1$, $\beta=1$, and $\beta=10$. Plot them in Matlab.
4. $x(t)$ is a square wave, please plot $x(t)$ in Matlab.
And please plot $y(t)$ for $\beta=0.1$, $\beta=1$, and $\beta=10$ in Matlab.



5. Please discuss the relationship between distortion and β .