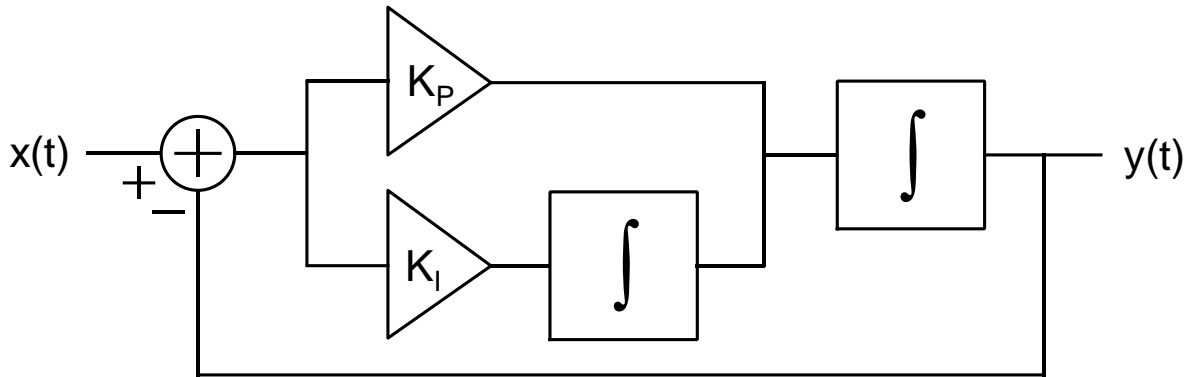


# Homework #08



## Problem 1

Assume  $K_P=3$ ,  $K_I=2$ .

- (1)  $H(S)$
- (2)  $h(t)$
- (3) pole-zero plot
- (4) Bode Plot (MATLAB)

## Problem 2

$$K_P = 2\zeta\omega_n$$

Assume  $K_I = \omega_n^2$

$$\omega_n = 1$$

Plot Root Locus, where Zeta is from -1 to 10 in a step of 0.01.