

type 0 sys.

$$G(s) = \frac{(s+1)(s+2)}{(s+3)(s+4)}$$

$$e_{ss} = \frac{1}{1+K_p} \quad K_p = \lim_{s \rightarrow 0} G(s) = K_p$$

$$P.G.P. = \frac{1}{K_p} = \infty \quad K_p = \lim_{s \rightarrow 0} G(s) = 0$$

$$e_{ss} = \frac{1}{K_a} = \infty \quad K_a = \lim_{s \rightarrow 0} sG(s) = 0$$

type 1 sys

$$G(s) = \frac{(s)(s+1)}{s(s+1)(s+2)}$$

$$e_{ss} = \frac{1}{1+K_p} \quad K_p = \lim_{s \rightarrow 0} G(s) = \infty$$

$$e_{ss} = \frac{1}{K_v} \quad K_v = \lim_{s \rightarrow 0} sG(s) = K_a$$

$$e_{ss} = \frac{1}{K_a} = \infty \quad K_a = \lim_{s \rightarrow 0} s^2 G(s) = 0$$

$$\lambda > 0$$

type 2) Sys.

$$G(s) = \frac{C(s)D(s)}{s^2 E(s)}$$

$$e_{ss} = \frac{1}{1+K_p} \quad K_p = \lim_{s \rightarrow 0} G = \infty$$

$$e_{ss} = \frac{1}{K_v} \quad K_v = \lim_{s \rightarrow 0} sG = \infty$$

$$e_{ss} = \frac{1}{K_a}$$

$$K_a = \lim_{s \rightarrow 0} s^2 G = K_a$$