

MATLAB :
Command

>>> place → help place

$$[K] = \text{place}(A, B, \lambda)$$

↑

given

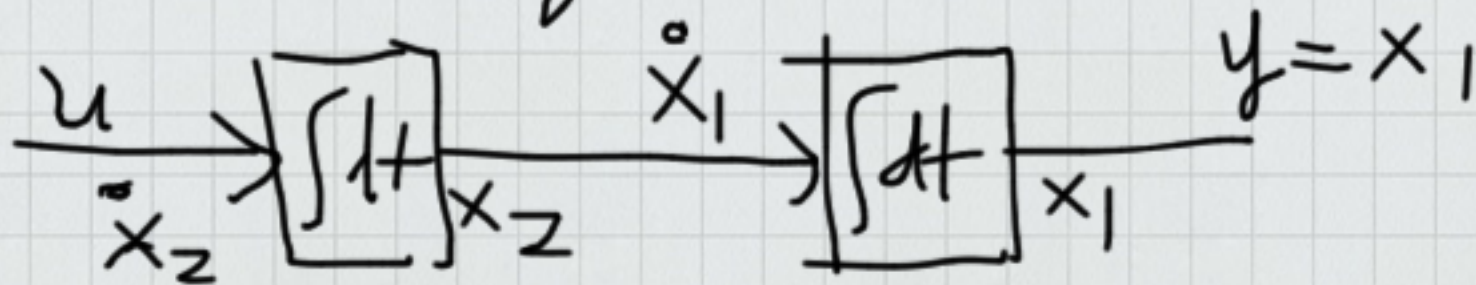
↑ λ yang diinginkan

$$>>> \text{eig}([A+BK])$$

Contoh :

$$\begin{aligned}\dot{x}_1 &= x_2 \\ \dot{x}_2 &= u\end{aligned}$$

"Double Integrator" Plant



Model Ruang Keadaan:-

$$\dot{x} = Ax + Bu$$

$$y = Cx + Du$$

dengan $A = \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}$

$$B = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

$$C = \begin{bmatrix} 1 & 0 \end{bmatrix}$$

$$D = \begin{bmatrix} 0 \end{bmatrix}$$

- unstable
- CO