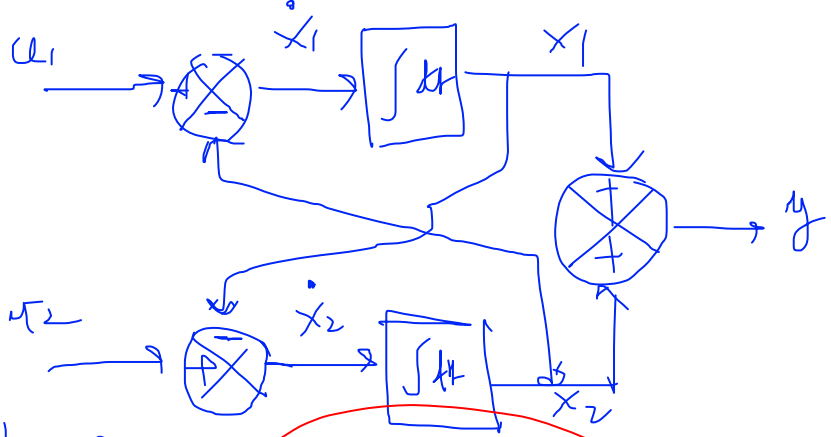


Pers. keadaan :

$$\dot{x}_1 = -x_2 + u_1$$
$$\dot{x}_2 = -x_1 + u_2$$

Pers-keluaran :

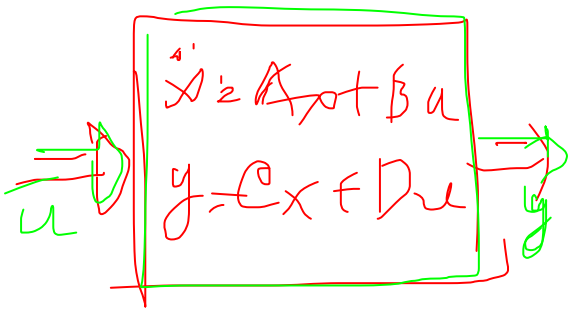
$$y = x_1 + x_2$$

$m = 2 \quad n = 2 \quad k = 1$

A[2x2], B[2x1], C[1x2], D[1x2]

$$\dot{x} = \begin{bmatrix} \dot{x}_1 \\ \dot{x}_2 \end{bmatrix} = \underbrace{\begin{bmatrix} 0 & -1 \\ -1 & 0 \end{bmatrix}}_{A[2\times2]} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} + \underbrace{\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}}_{B[2\times2]} \begin{bmatrix} u_1 \\ u_2 \end{bmatrix}$$

$$y = \underbrace{\begin{bmatrix} 1 & 1 \end{bmatrix}}_{C[1\times2]} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} + \underbrace{\begin{bmatrix} 0 & 0 \end{bmatrix}}_{D[m\times2]} \begin{bmatrix} u_1 \\ u_2 \end{bmatrix}$$



Sekian untuk semester ini