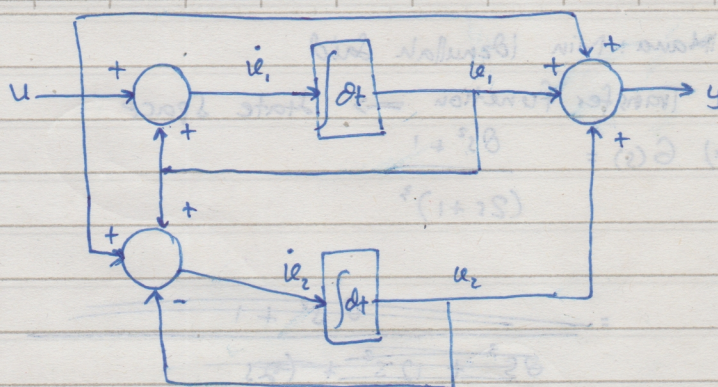


2.

FAKULTAS TEKNIK	
UNIVERSITAS HASANUDDIN	
No. Sid.	_____
Mata Pelajaran	_____
Semester	_____
Status	_____
Tgl. Ujian	_____



$$(c) \begin{bmatrix} \dot{u}_1 \\ \dot{u}_2 \end{bmatrix} = \begin{bmatrix} 1 & 1 \\ 1 & -1 \end{bmatrix} u + \begin{bmatrix} 1 \\ 1 \end{bmatrix} u$$

$$y = \begin{bmatrix} 1 & 1 \end{bmatrix} u \quad D = -$$

$$u_1 = u_1 + u$$

$$u_2 = u_2 + u - u_2$$

$$y = u + u_1 + u_2$$

masukan $(u) = m = 1$

peubah $n = n = 2$

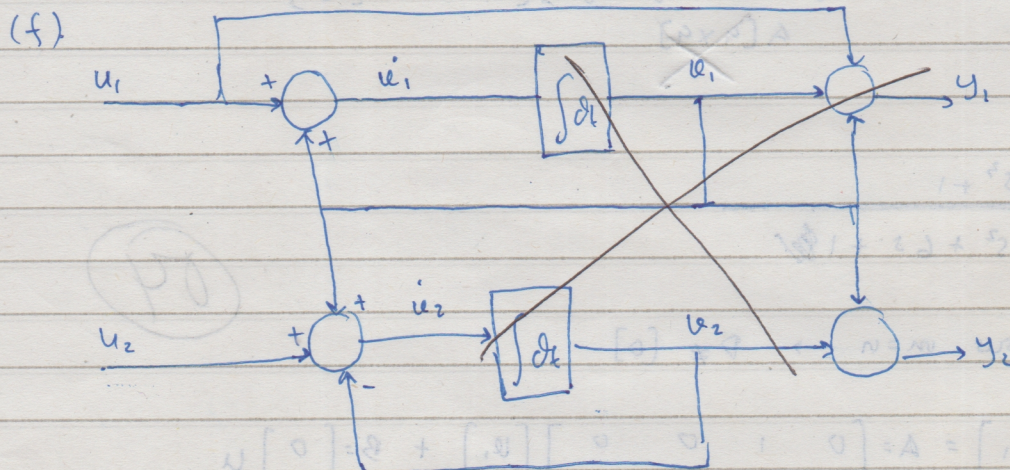
keluaran $= k = 1$

$$A = [n \times n] \\ = [2 \times 2]$$

$$B = [n \times m] \\ = [2 \times 1]$$

$$C = [k \times n] \\ = [1 \times 2]$$

$$D = [k \times m] \\ = [1 \times 1]$$



$$b. G(s) = \begin{bmatrix} 1 & 0 \end{bmatrix} \begin{bmatrix} \frac{1}{s} & 0 \\ 0 & -\frac{1}{s-1} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \end{bmatrix} = \begin{bmatrix} \frac{1}{s} & 0 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \end{bmatrix}$$