Doffa Kurnia Fatah 02311940000068 PSD Kelas A

$$\begin{array}{c|c} T_2 & T_1 \\ \hline T_1 & T_0 & C_2 \\ \hline \end{array}$$

$$A_{in} = \frac{T_2 - T_1}{R_2} + \frac{T_1}{R_1} + C_1 \frac{dT_1}{dt}$$

$$\frac{T_6-T_1}{R_2} = \frac{T_2-T_1}{R_2} + \frac{T_1}{R_1} + C_1 \frac{dT_1}{dt}$$

$$\frac{70-71}{3.5} = \frac{70-71}{1A} + \frac{71}{3.5} + 9.2 \frac{d7}{dt}$$

2)
$$\frac{T_{1}-T_{2}}{P_{3}} = \frac{T_{2}-T_{1}}{P_{2}} + C_{2} \frac{dT_{2}}{dt}$$

 $\frac{T_{1}-T_{2}}{S_{1}S} = \frac{T_{2}-T_{1}}{3.5} + 9.1 \frac{dT_{2}}{dt}$

$$\frac{dT_2}{dt} = 0.63T_1 - 0.03T_2 - 0.03T_1 + 0.03T_1$$

$$= -0.05T_2 + 0.03T_1 + 0.03T_1$$