

$$\begin{cases} \frac{d}{dt}y_1 + y_1 - \frac{d}{dt}y_2 - y_2 = u(t) \\ -2\frac{d}{dt}y_1 - 4y_1 + 2\frac{d}{dt}y_2 + 6y_2 = 0 \\ u(t) = 2U_{-1}(t) \end{cases}$$