

$$\ddot{y}(t)+3\dot{y}(t)=u(t)$$

$$\ddot{y}(t)+2\dot{y}^3(t)+y(t)=u(t)$$

$$\begin{aligned}\ddot{y}(t)+5\ddot{y}(t)+2\dot{y}(t)+y(t)+z(t)&=u(t) \\ \ddot{z}(t)+\dot{z}(t)+z(t)+y(t)&=v(t)\end{aligned}$$

$$\ddot{y}(t)+0.5\dot{y}(t)+y(t)=\int_0^t u(\tau)$$

$$\ddot{y}(t)+0.5\ddot{y}(t)+\dot{y}(t)=u(t)$$

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$$\ddot{y}(t)+0.5\ddot{y}(t)+\dot{y}(t)=u(t)$$

$$\begin{aligned}\ddot{y}(t)+5\dot{y}(t)+y(t)+\dot{z}(t)+\dot{x}(t)&=0 \\ \dot{z}(t)+z(t)+\dot{x}(t)&=u(t) \\ \ddot{x}(t)+0.5\dot{x}(t)+x(t)-\dot{z}(t)&=0\end{aligned}$$

$$\begin{aligned}\ddot{y}(t)+5\ddot{y}(t)+\dot{y}(t)+y(t)+\dot{z}(t)&=u(t) \\ 3\ddot{z}(t)+0.3\dot{z}(t)+z(t)-\ddot{y}(t)+\dot{y}(t)&=0\end{aligned}$$

$$\ddot{y}(t)+3\ddot{y}(t)|\dot{y}(t)|+0.5\dot{y}(t)+\dot{y}(t)^2 y(t)=u(t)$$

$$\begin{aligned}\dot{x}(t)-10(y(t)-x(t))&=u(t) \\ \dot{y}(t)+y(t)-x(t)(30-z(t))&=0 \\ \dot{z}(t)-x(t)y(t)+\frac{8}{3}z(t)&=0\end{aligned}$$