

$$\dot{y} + a_0 y = b_0 u(t) \quad y(0) = y_0 \quad u(t) = \delta(t)$$

$$y(t) = ?$$

LT:

$$sY(s) - y(0) + a_0 Y(s) = b_0 U(s) \quad U(s) = 1$$

$$Y(s) = ?$$

$$Y(s) (s + a_0) = b_0 + y_0$$

$$Y(s) = \frac{b_0}{s + a_0} + \frac{y_0}{s + a_0}$$

$$y(t) = b_0 e^{-a_0 t} + y_0 e^{-a_0 t}$$

$y(t)$

$$\dot{y} = -a y$$

$y(0)$

$$y(t) = 0$$



$y=0$

$\bar{C} \bar{A} \bar{S}$

$$\begin{bmatrix} 0 & 1 \\ -a_0 & -a_1 \end{bmatrix}$$

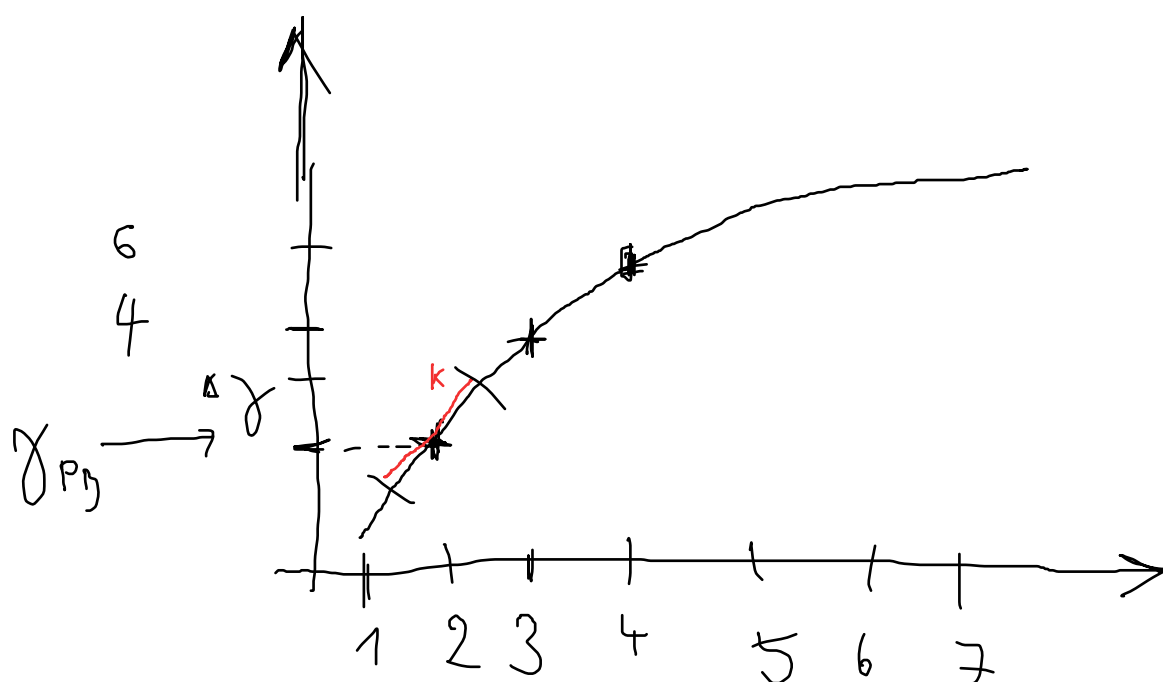
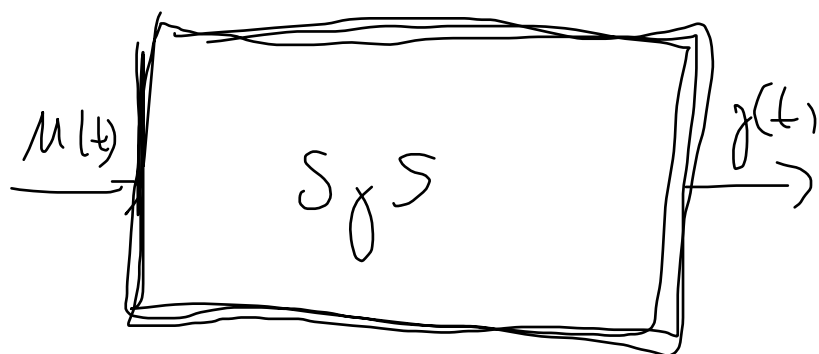
$$\begin{aligned} \dot{x} &= A x + b u \\ y &= c^T x \end{aligned}$$

$y(t) = ?$

$$x(t) = ?$$

$$x_e(t) = 0$$

(ROZSAHY)



Δu
 $(u_{PB}) + \text{okolice}$

$$\frac{\Delta y(u)}{\Delta u(u)} = k$$

$$\dot{X} = aX + b\mu$$

$$\dot{\gamma} = \cancel{\mu} X$$

$$\boxed{X = Q}$$

$$Q = aX + b\mu$$

$$\frac{X \cancel{\mu}}{\mu} = \frac{b}{a}$$

$$\boxed{X = \frac{b}{a} \mu}$$

