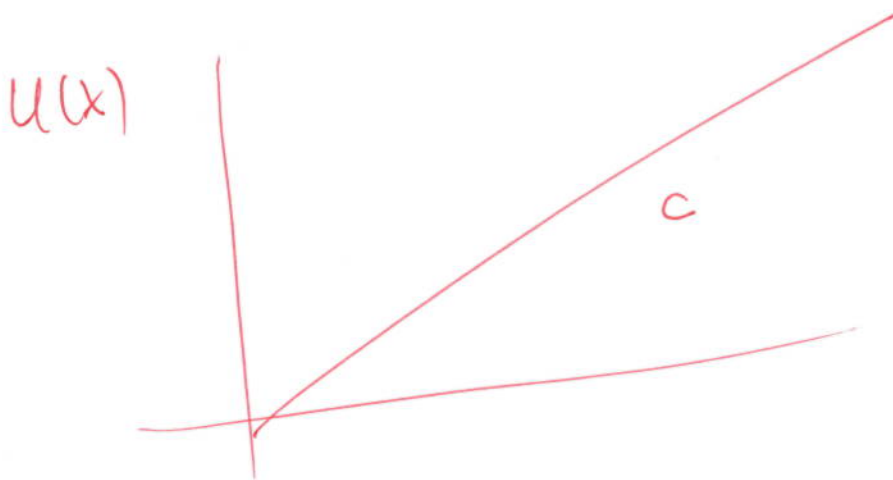
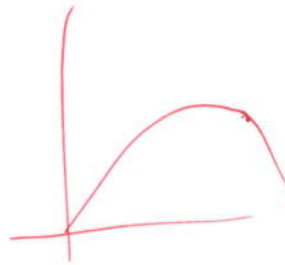


$$\partial_x \mathcal{L} = a(t) \partial_t \mathcal{L} + b(t) \partial_t^2 \mathcal{L} + c(t) \mathcal{L}$$

$$\dot{\mathcal{L}} = -\mathcal{L} \left(\underbrace{\partial_x u + \partial_x^2 u}_c \right)$$



$$u = \beta t - e^{-t}$$

$$\partial_x u \neq 0 \quad \partial_x^2 u = 0 \quad \rightarrow \quad u(t) = \alpha \cdot x$$

$$\underbrace{\partial_x u + \partial_x^2 u}_{\text{const.}} = \text{const.}$$

$$\cancel{e^{-\lambda t}}$$

$$u' + u'' = c.$$

$$v = \cancel{e^{-\lambda t}}$$

$$v + v' = c.$$

$$\underbrace{v = \beta + e^{-t}}_{v' = -e^{-t}} = u'$$

$$\dot{S} = u S$$

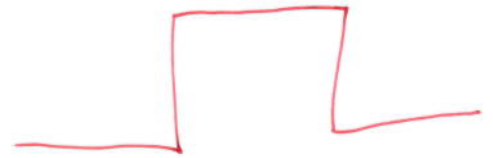
$$\dot{S} = -\Delta x \frac{\partial S}{\partial x} + \underbrace{u(\Delta x)^2}_{\tilde{u} \cdot \Delta x} \frac{\partial^2 S}{\partial x^2}$$

$$-S \Delta x \frac{\partial u}{\partial x} + S(\Delta x)^2 \frac{\partial^2 u}{\partial x^2}$$

$$\begin{array}{cccccc} & & i\Delta x & & & \\ \bigcirc & \bigcirc & \bigcirc & \bigcirc & \bigcirc & \bigcirc \\ i=1 & 2 & & & & \end{array}$$

$$\underbrace{u \cdot \Delta x}_{\tilde{u}}$$

$$T_{i \rightarrow j} = \text{---}$$



$$S + S'$$

