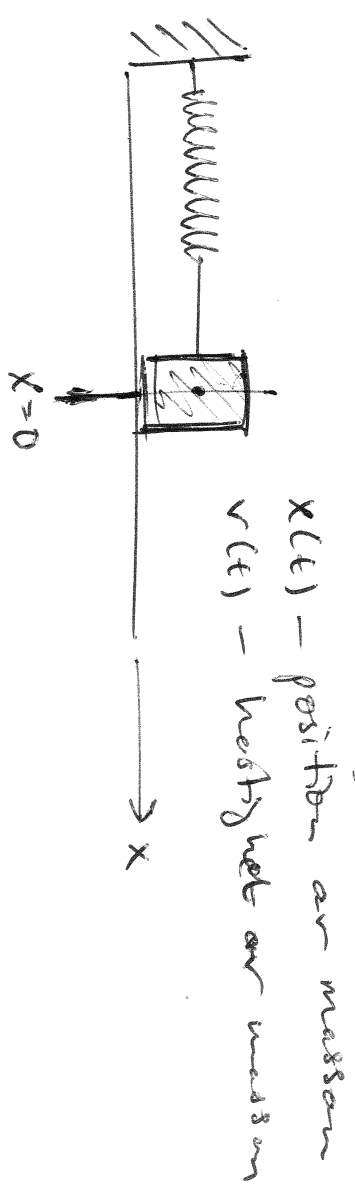


FD45

Mass-spring system

①



$$\begin{cases} \dot{x}(t) = v(t) \\ \dot{v}(t) = F(x) = -x \end{cases} \quad (\text{valid for } x=0)$$

System

$$\begin{cases} \dot{u}_1(t) = u_2(t) \\ \dot{u}_2(t) = -u_1(t) \end{cases}$$

- Which function solver system?

Python: "pint-simulator.py" (M3-ode/geom)

And handle for?

- Forward Euler
- Backward Euler
- Trapezoidal