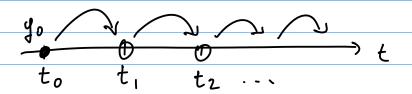
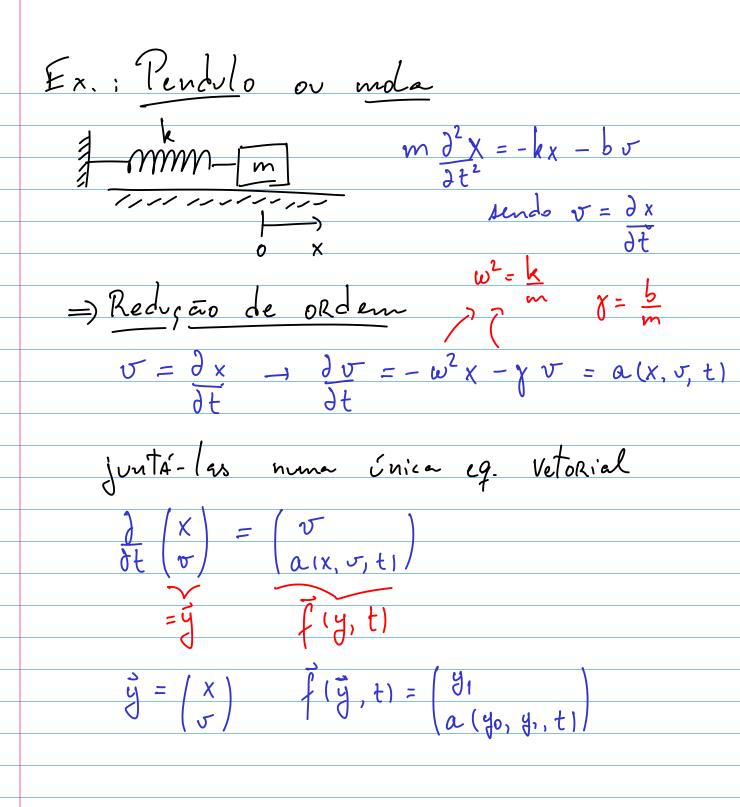
Egragões ciferenciais ordinárias -> métodos fundamentais: • Euler: $\frac{\partial}{\partial t} \dot{y}(t) = \vec{f}(\dot{y}, t)$ ·Runge-Kutta: • Verlet: $\frac{\partial^2 \vec{y}(t)}{\partial t^2} = \vec{a}(\vec{y}, t)$ tempo discreto Overo Resolver: $\frac{\partial y}{\partial t} = f(y, t)$ y(to) = yo : condição inicial yo : Sy = yo + fo At Definição de de Rivada: $\frac{\partial y}{\partial t} = \lim_{t \to 0} \frac{y(t+\Delta t) - y(t)}{\Delta t} = \int_{t}^{t} (y,t)^{2} dt$





Ex: Queda Livre

$$\frac{\partial^2 y}{\partial t^2} = -g - \gamma \nabla$$

$$\frac{\text{cond. initial}}{U(0) = U_0 = 0}$$