

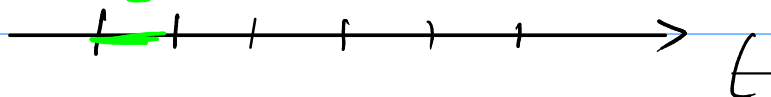
$$y = f(x) \xrightarrow{\text{derivate}} f'(x)$$

← anti-derivate

$$\int_{x_1}^{x_2} f(x) dx$$

$$s(t) \xrightarrow{\text{derivate}} v(t) = \frac{ds}{dt}$$

$$\Delta t_i \quad v_i \text{ (medi.)}$$



$$s : \frac{1}{2} \text{ temp } v_1 ; \frac{1}{2} \text{ temp } v_2$$

$$\Delta s_i = v_i \Delta t_i$$

$$\Delta s = \sum_{i=1}^n \Delta s_i$$

$$= \sum_{i=1}^n v_i \Delta t_i$$

$$\boxed{\Delta t \rightarrow 0}$$

$$\Delta t \rightarrow dt$$

$$\rightarrow \underline{\underline{n \rightarrow \infty}} \quad \begin{matrix} \nabla \nabla \\ \circ \circ \end{matrix}$$

$$\sum_{i=1}^n \rightarrow \int_{t_1}^{t_2} dx$$

$$\Rightarrow dx = v(t) dt \quad \Leftarrow v(t) = \frac{dx}{dt}$$

$$\Delta s \Big|_{t_1}^{t_2} = \int_{t_1}^{t_2} v(t) dt$$

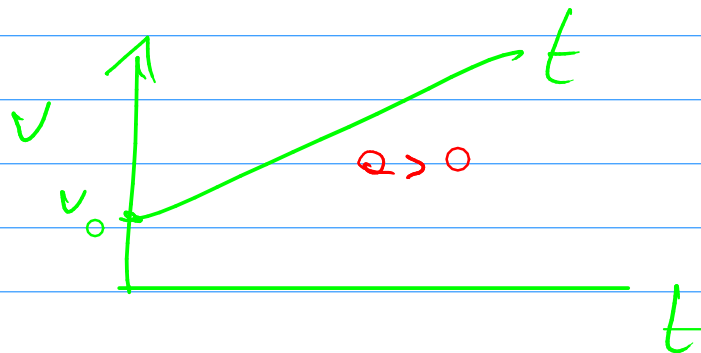
$$\underline{\underline{s(t_2) - s(t_1)}} = \int_{t_1}^{t_2} v(t) dt$$

$$s(t_2) = s(t_1) + \Delta s \Big|_{t_1}^{t_2}$$

$$s(t_2) = s(t_1) + \int_{t_1}^{t_2} v(t) dt$$

1) • $v(t) = v_0$

2) • $v(t) = v_0 + a \cdot t$



"accel." $= \frac{dv}{dt} = a$

3) • $v(t) = v_0 + a(t) \cdot t$

1.4 kW/m

