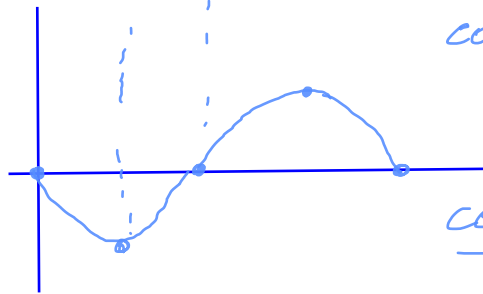


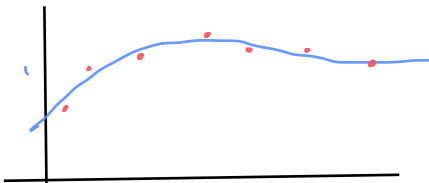
$$\sin(x) = \cos(x - \frac{\pi}{2})$$



$$\begin{aligned} \cos'(x) &= -\sin(x) \\ &= -\cos(x - \frac{\pi}{2}) \end{aligned}$$

$$\sin'(x) = \cos(x)$$

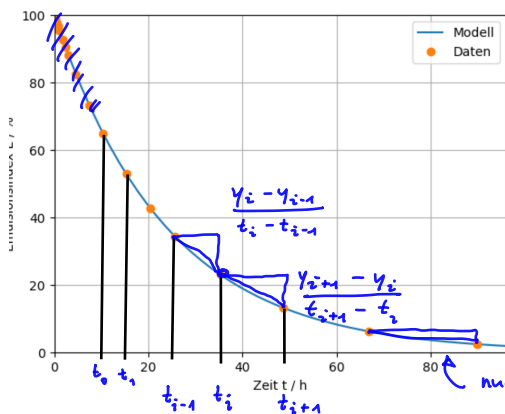
$$\underline{\cos''(x)} = \frac{d^2}{dx^2}(\cos(x)) = \frac{d}{dx}(-\sin(x)) = \underline{-\cos(x)}$$



$$\Delta y = \text{num-analyt.}$$

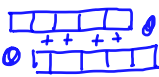
$$\sum \Delta y^2 = \text{Varianz} = \sigma^2$$

$$\sigma = \sqrt{\sigma^2} \text{ Standardabweichung}$$



dy/dt

dy/dt



vorwärts

rückwärts

nur rück.

$$\left(100 e^{-t/\tau}\right)' = 100 e^{-t/\tau} \cdot \left(-\frac{1}{\tau}\right)$$