

$$\vec{F}_{\text{net}} = m\vec{g} - \beta\vec{v}$$

* forza oltre

Auto

$$\vec{F} = \vec{F}_M - \beta\vec{v}$$

$$-\frac{d}{dt} v^2 \propto v$$

$$\downarrow v_0 \quad \boxed{t=t_0}$$

$$\vec{F} = -\beta\vec{v}$$

$$a = \frac{\vec{F}}{m} = -\frac{\beta}{m}v$$

$$\left[\frac{m}{\beta} \right] = [T]$$

$$\frac{dv}{dt} = -\frac{\beta}{m}v \rightarrow$$

$$\frac{dv}{dt} = -\frac{1}{2}v$$

$$\frac{dx}{dt} \propto x$$

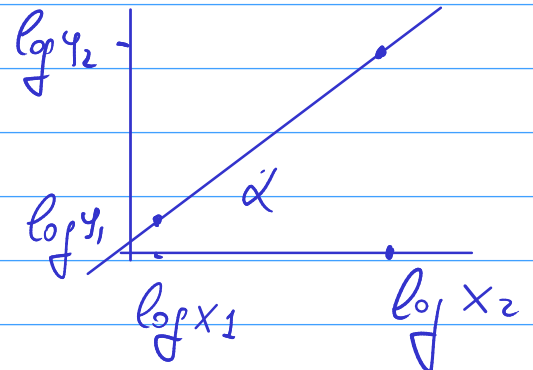
$$v(t) = v_0 e^{-t/2}$$

$$t=0 \rightarrow v(0) = v_0$$

$$t \rightarrow \infty \rightarrow v(\infty) = 0$$

$$y = kx^\alpha$$

$$\log y = \log k + \alpha \cdot \log x$$



$$\alpha = \frac{\Delta(\log y)}{\Delta(\log x)} = \frac{\log y_2 - \log y_1}{\log x_2 - \log x_1} = \frac{\log y_2/y_1}{\log x_2/x_1}$$