$$\begin{bmatrix}
\bar{F}_{3} = -b\bar{y}
\end{bmatrix}$$

$$\begin{bmatrix}
b
\end{bmatrix} = \begin{bmatrix}
\bar{F}_{3} = kg m \sigma^{2} = kg / \sigma
\end{bmatrix}$$

$$v = 0 \Rightarrow F_{5} = 0$$

$$F_{3} = -bv = ma \Rightarrow a = -\frac{b}{m} v = -kv \\
mg + F_{3} = ma$$

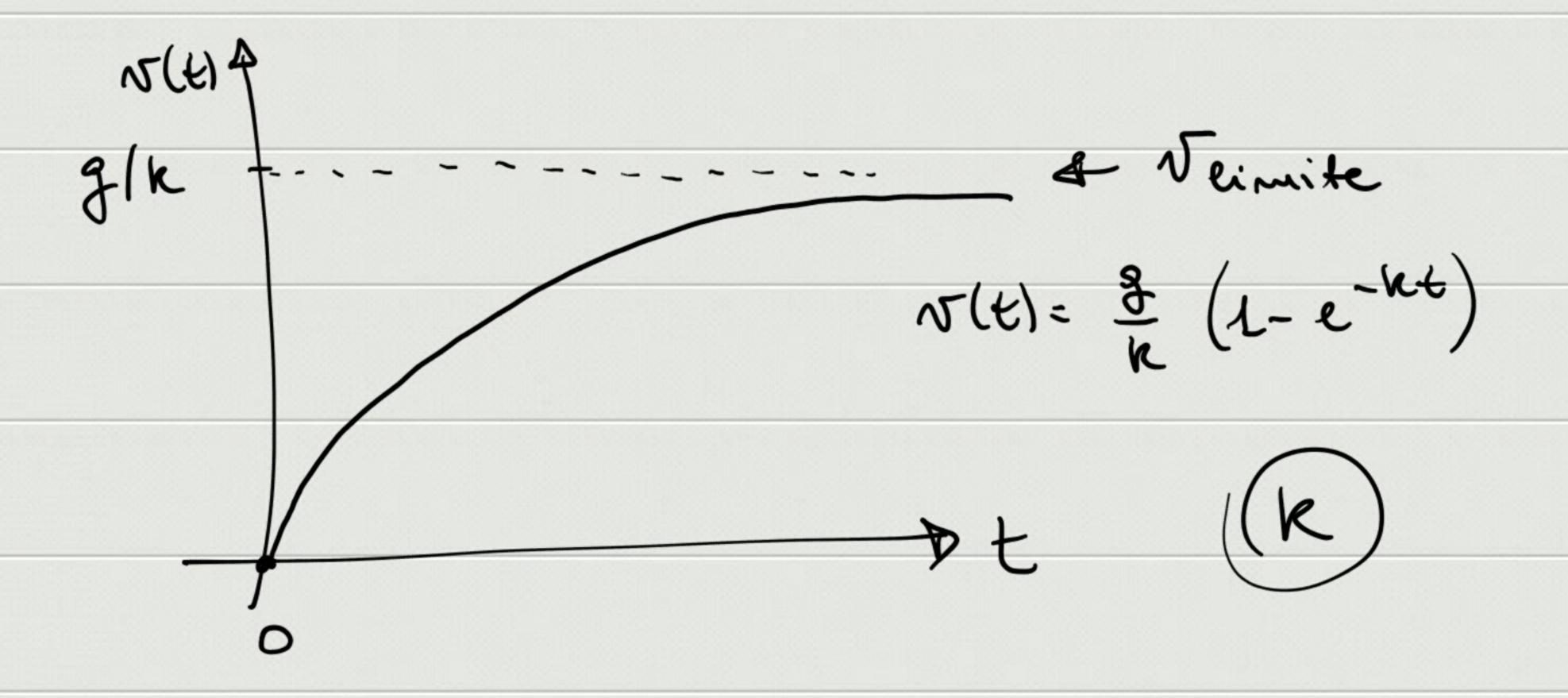
$$mg - bv = ma = m \frac{dv}{dt}$$

$$mg - bv = dt$$

$$\Rightarrow -\frac{1}{k} \ln (g - hv) = t$$

$$\ln \frac{g - k \, \mathcal{N}(t)}{g} = -k \, t \implies g - k \, \mathcal{N}(t) = g \, e^{-kt}$$

$$k \, \mathcal{N}(t) = g \, \left(1 - e^{-kt}\right) \implies \mathcal{N}(t) = \frac{g}{k} \, \left(1 - e^{-kt}\right)$$



Fr: -br= -cmr

y-> viscosité del fluido

c -> coefficiente che dipende dolle forme

C=6TR