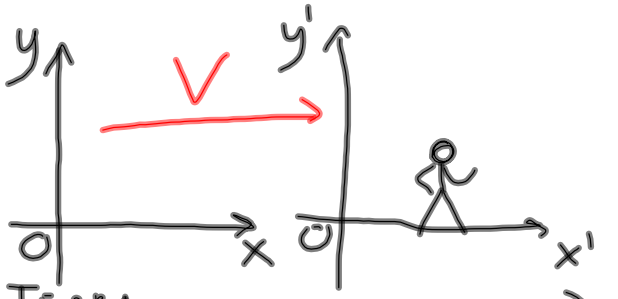


$V_T = 3{,}0$ m/s

$V' = 1{,}0$ m/s

$\vec{v}' = \vec{v} - \vec{V}$ $\quad \vec{v} = \vec{V} + \vec{v}'$

$v' = v - V$ $\quad v = V + v'$

$$\begin{cases} x' = x - V_x t \\ y' = y - V_y \cdot t \end{cases}$$

Principio d'inerzia

In tutti i sistemi inerziali valgono le leggi della dinamica newtoniana.

$\vec{F} = m\vec{a}$

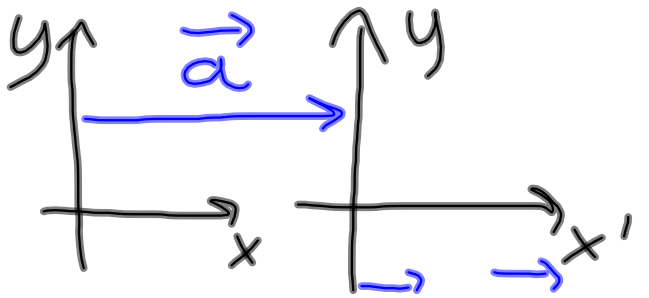
$\vec{v}' = \vec{v} - \vec{V}$

$\Delta\vec{v}' = \Delta\vec{v} - \Delta\vec{V}$ (zero)

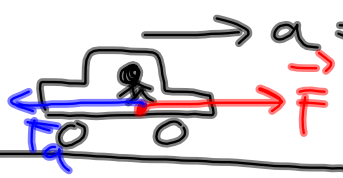
$\Delta v' = \Delta v$

$\frac{\Delta v'}{\Delta t} = \frac{\Delta v}{\Delta t}$ $\quad \boxed{a' = a}$

SISTEMI NON INERZIALI



$$m\vec{a} = \vec{F} + \vec{F}_a \qquad \vec{F}_a = -m\vec{a}$$



$$ma = F + F_a = 0$$