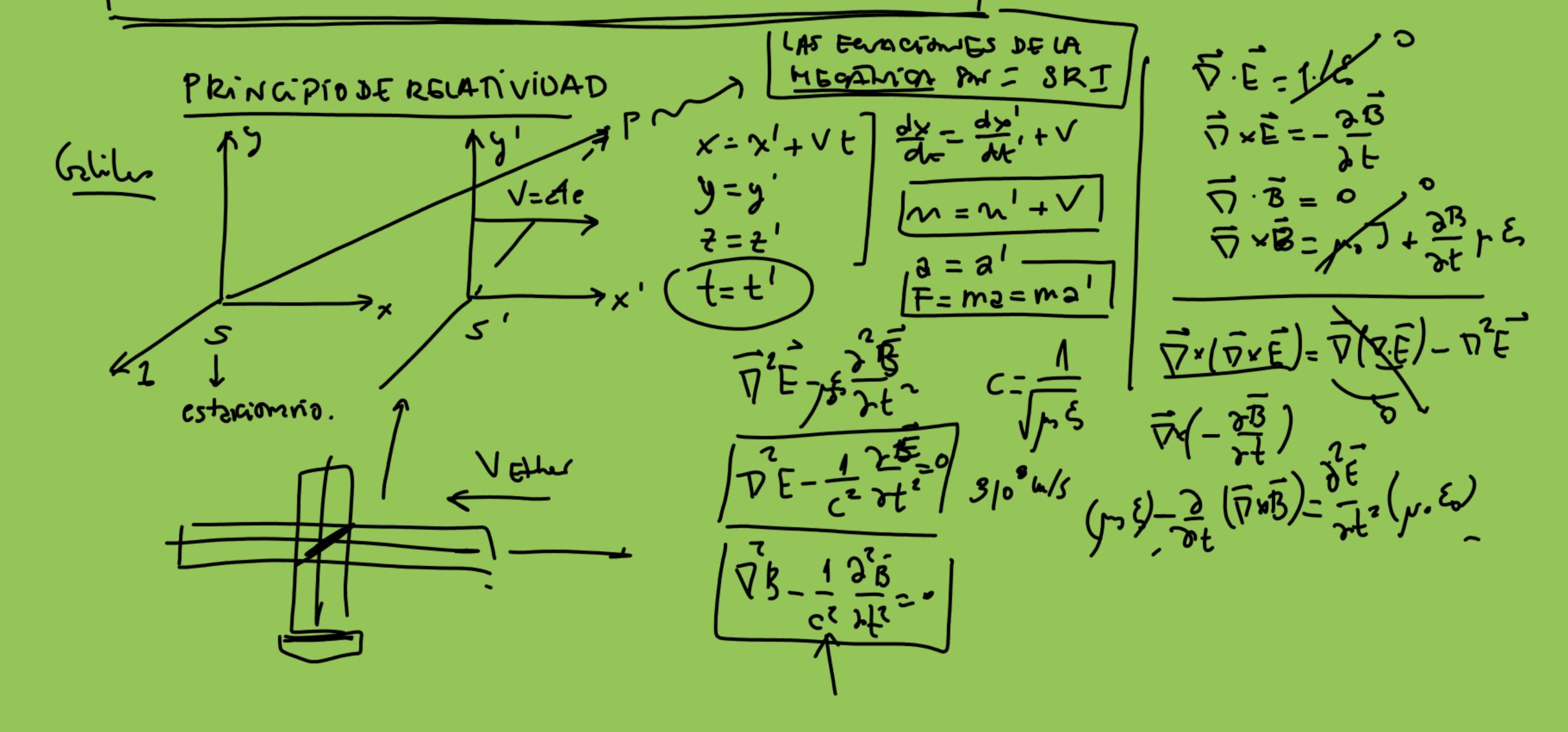
## UNIDAD 1 INTRODUCCIÓN A LA RELATIVIDAD



## 1.2 PRINCIPIO DE REVATIVIDAD ESPECIAL

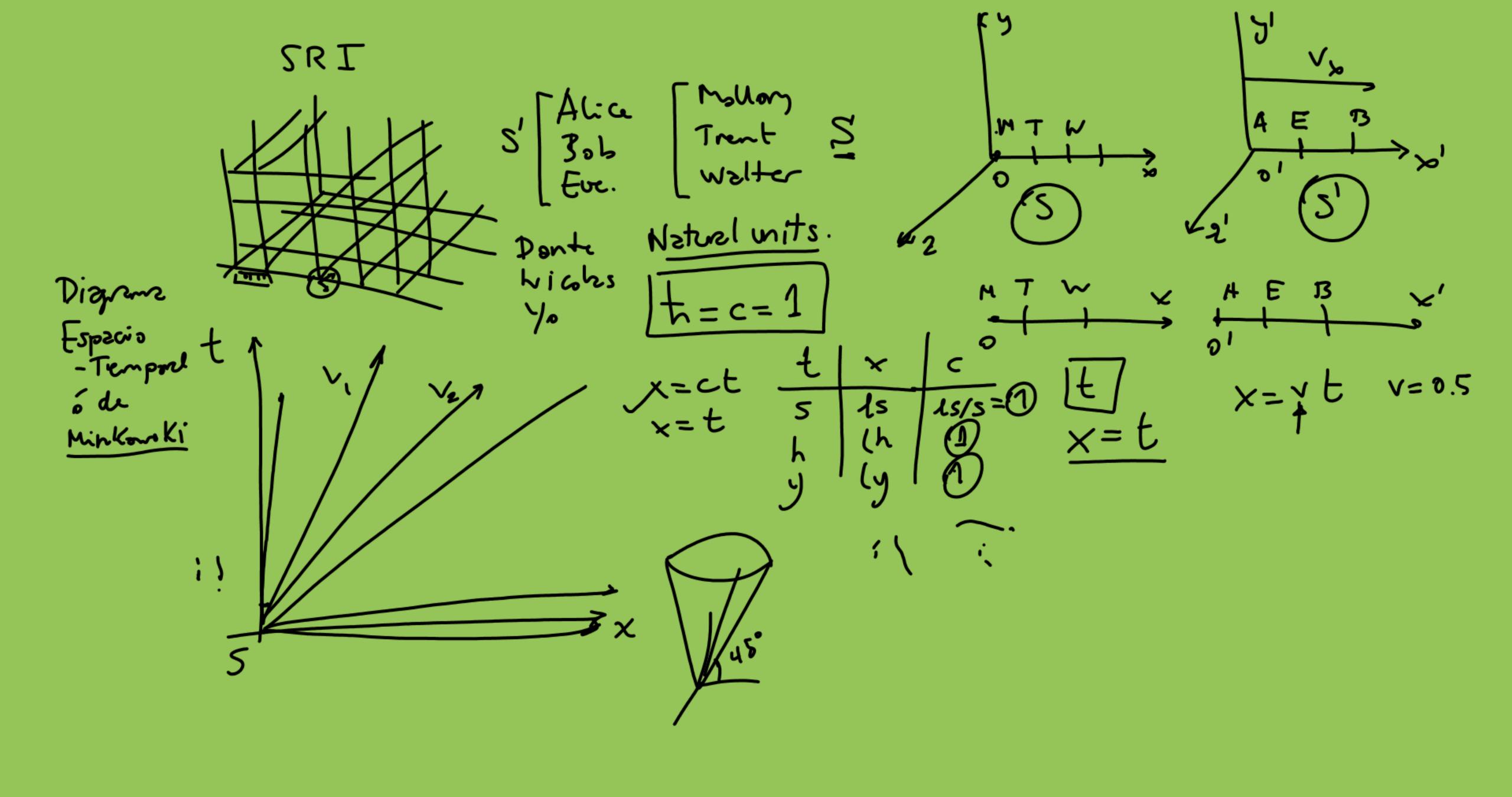
LAS LEYES DE LA <u>ESSICA</u> SON LA MISMAS

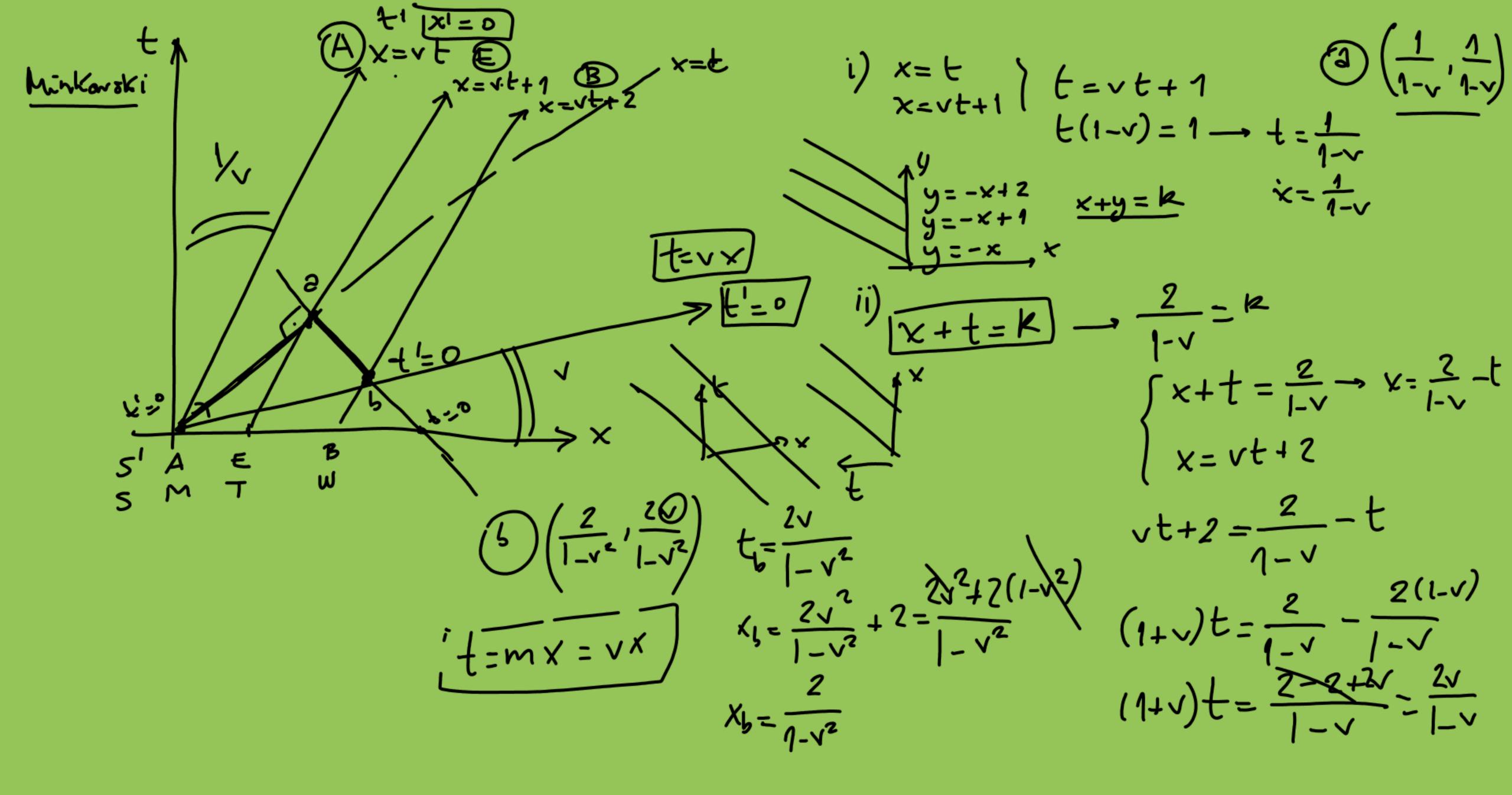
FISICA

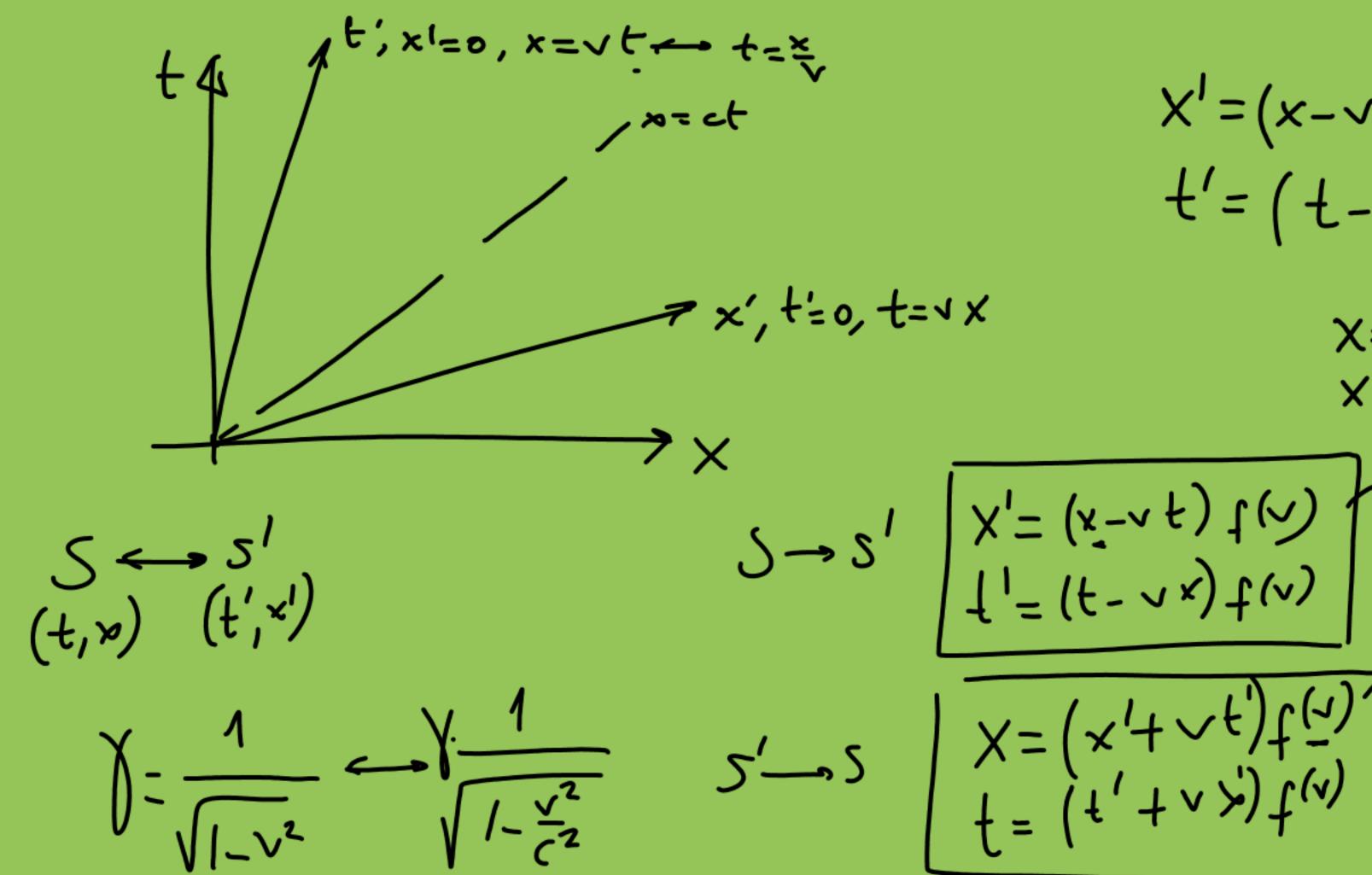
MAKWEN

LA CONSTRUIA DE LA VERCIDAD ES UNA LEZ DE LA FISICA

C = cte







$$x = \int_{1-\sqrt{2}}^{1-\sqrt{2}} (x^1 + \sqrt{2})$$

$$t = \int_{1-\sqrt{2}}^{1-\sqrt{2}} (t^1 + \sqrt{2})$$

$$\frac{2}{c} < < 1$$
 $\frac{1}{\sqrt{1-v^2}} = 1$ 

$$x' = Y(x-vt) Y = \int_{1-v^{2}/c^{2}}^{1-v^{2}/c^{2}} t' = Y(t-\frac{1}{c^{2}}x)$$

$$\frac{t}{ct' = \chi(ct - \frac{\chi}{c} x)}$$

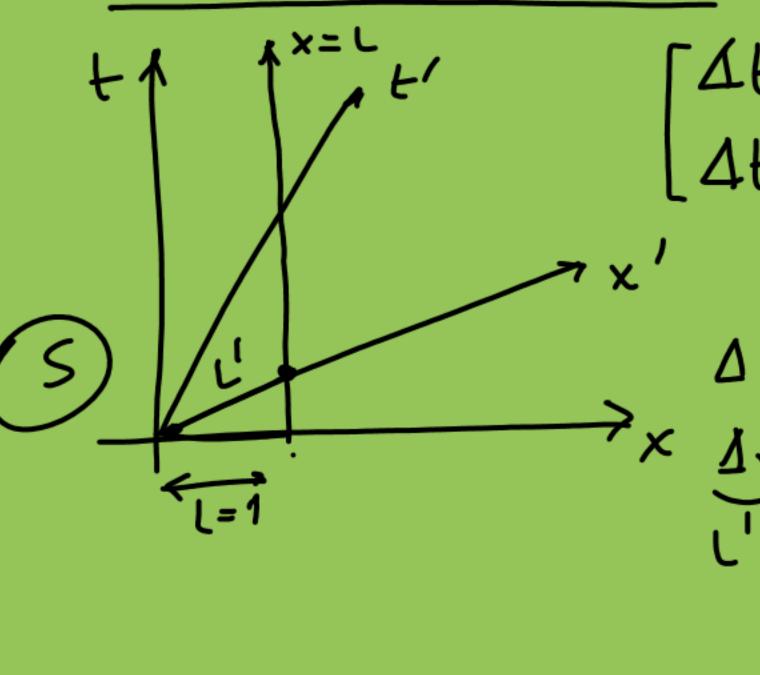
$$x' = f(x,t)$$
 $x' = g(x,t)$ 
 $x' = g(x,t)$ 

$$\frac{1}{x'_2} = \chi(x_2 - vt_2)$$

$$\frac{1}{x'_2 - x'_1} = \chi((x_2 - x_1) - v(t_2 - t_1))$$

$$\frac{1}{x'_2 - x'_1} = \chi(\Delta x - v\Delta t)$$

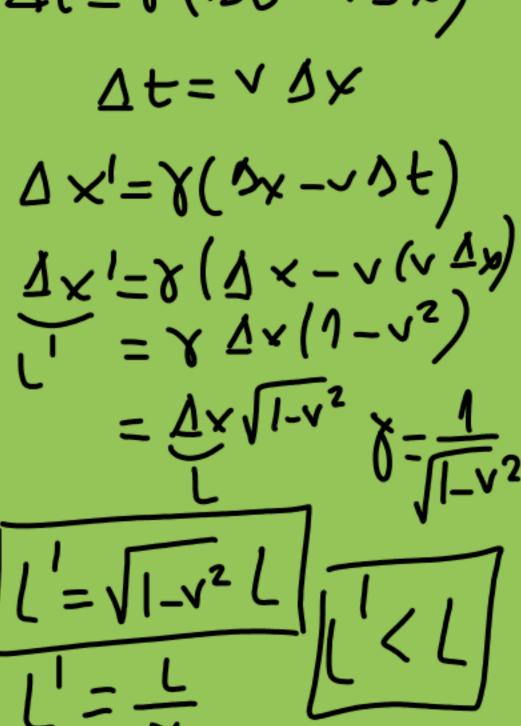
## Contracción Espaeran

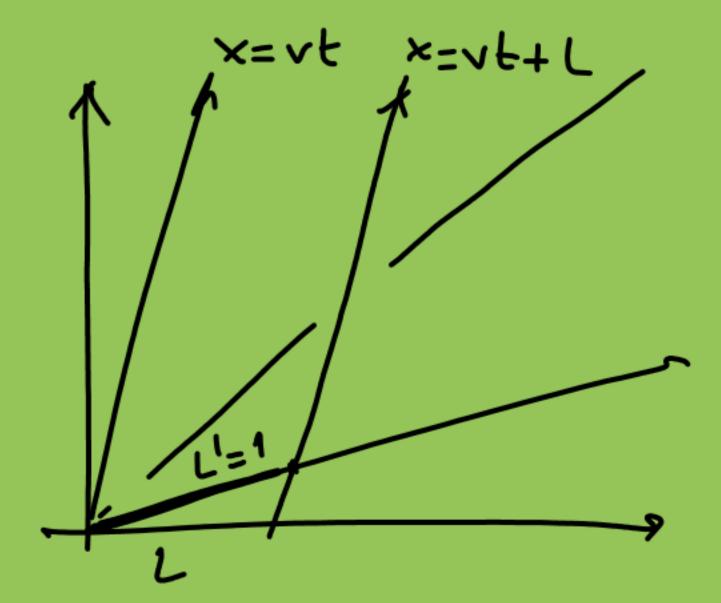


$$\int \Delta t' = 0$$

$$\Delta t' = \gamma (\Delta t - v\Delta x)$$

$$\Delta t = v \Delta x$$





$$\Delta t = 0 \qquad \Delta t = \chi(\Delta t' + v \Delta x')$$

$$\Delta x = \chi(\Delta x' + v \Delta t')$$

$$\Delta x = \chi(\Delta x' - v^2 \Delta x')$$

$$\Delta x = \Delta x' \chi(1 - v^2) \rightarrow \Delta x = \sqrt{1 - v^2} \Delta x'$$

$$\sqrt{1 - v^2} \qquad \sqrt{1 - v^2}$$

