

$$\gamma(v) := \frac{1}{\sqrt{1 - \left(\frac{v}{c}\right)^2}}$$

$$c := 3 \cdot 10^8$$

$$v := 0.9999999c$$

$$x2(v,x1,t) := \gamma(v) \cdot x1 - v \cdot t$$

$$t2(v,x1,t) := \gamma(v) \cdot \left(t - v \cdot \frac{x1}{c^2}\right)$$

$$t := 0,0.001..0.1$$

$$x1(t) := 0$$

