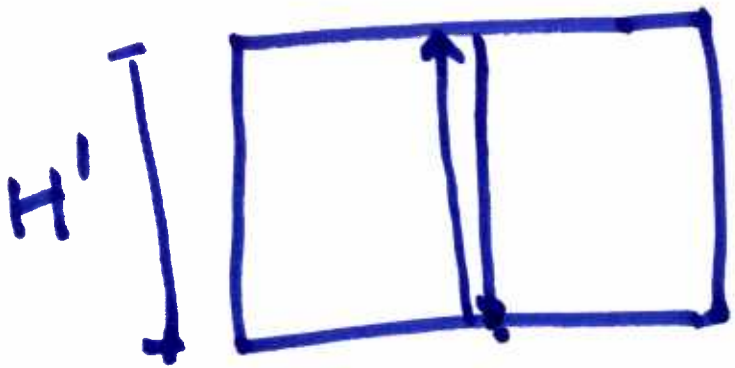
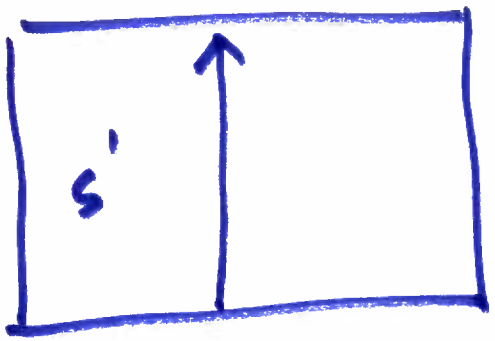


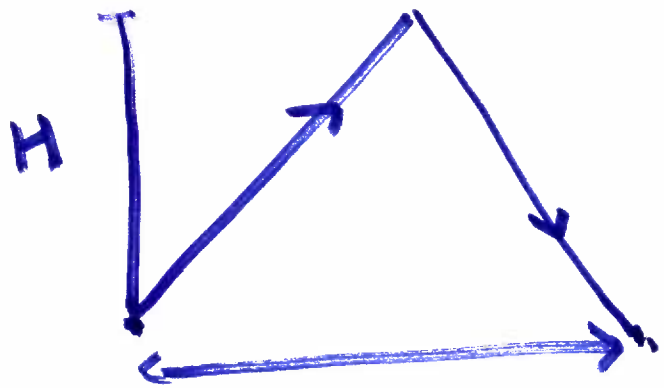
$$\frac{2H'}{c}$$

$$u_x = \frac{u_x' + v}{1 + \frac{u_x' v}{c^2}}$$

$$u_y = \frac{u_y'}{\gamma\left[1 + \frac{u_x' v}{c^2}\right]}$$


S'

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



$V \Delta t$

$\pm \frac{c}{\gamma}$

$\frac{2H}{\pm \frac{c}{\gamma}}$

$\gamma \frac{2H}{c}$

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

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

$$\Delta t' = \frac{\gamma}{c}\left(c\Delta t - \frac{v\Delta x}{c}\right)$$

$$\Delta x = x_2 - x_1$$