

Formula sheet

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

$$\tilde{x} = \gamma(x - vt)$$

$$\tilde{t} = \gamma(t - (v/c^2)x)$$

$$s^2 = (c\Delta t)^2 - (\Delta x)^2$$

$$\tilde{u} = \frac{u - v}{1 - uv/c^2}$$

$$c \approx 3 \times 10^8 \text{ m/s}$$

$$c = 1 \frac{\text{light year}}{\text{year}}$$