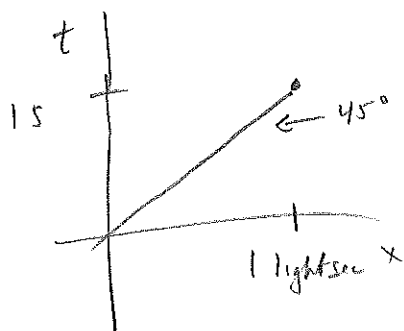
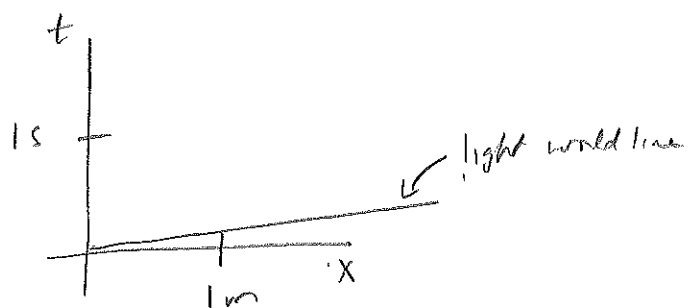
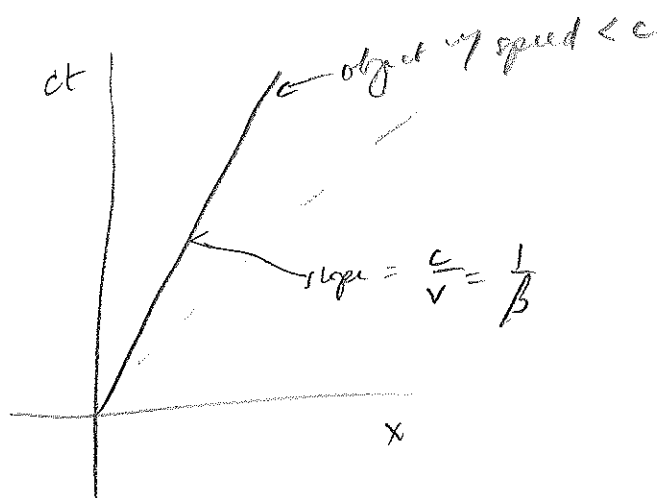
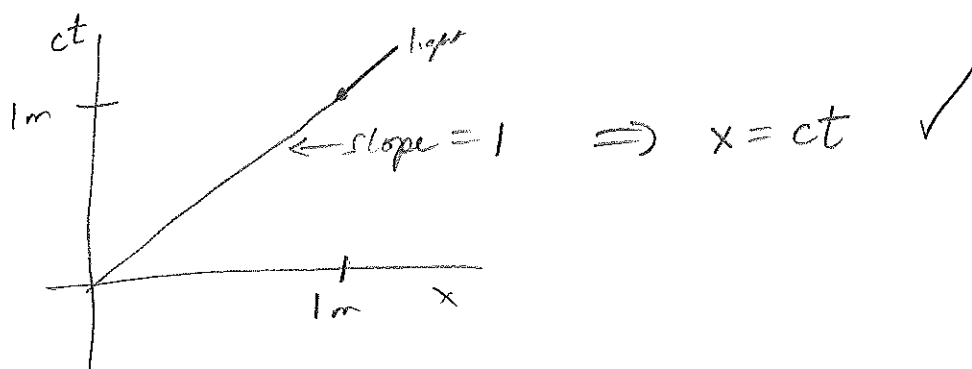




$$1 \text{ lightsec} = \underline{\underline{3 \times 10^8 \text{ m}}}$$

[measure time in meters.]

$$1 \text{ meter time} = \text{time for light to travel } 1 \text{ m} = \frac{1 \text{ m}}{299729458 \text{ m/s}} \approx \underline{\underline{3 \text{ ns}}}$$

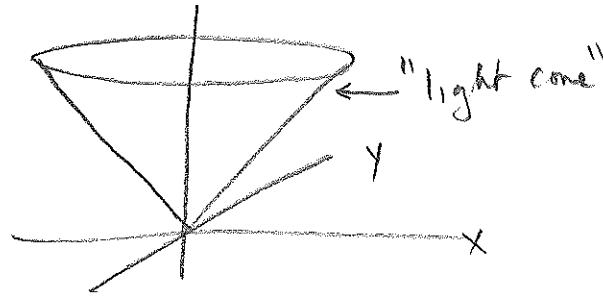
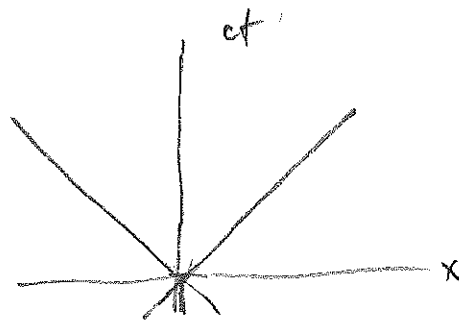


$$x = vt$$

$$t = \frac{x}{v}$$

$$(ct) = \left(\frac{c}{v}\right) x$$

↑ slope



[even in 3 d, we speak of a light cone but really an expanding sphere]

