## 1-1 Solution

$$\beta$$
= v/c = 0.99c/c = 0.99

$$t = \gamma t_o = \frac{t_o}{\sqrt{1 - \beta^2}} = \frac{0.1}{\sqrt{1 - 0.99^2}} = \frac{0.71 \text{ seconds}}{0.71 \text{ seconds}}$$