$$\text{period} \quad P \quad = \quad \frac{1}{f}$$

$$t_1 \quad = \quad \frac{L}{v}$$

$$t_2 \quad = \quad \frac{L}{v}$$

$$t_{\text{roundtrip}} \quad = \quad t_1 \; + \; t_2 \quad = \quad \frac{2L}{v}$$

$$y_1(x,t) \quad = \quad A \, \sin(kx + \omega t)$$

$$y_2(x,t) \quad = \quad A \, \sin(kx - \omega t)$$

$$\sin(\alpha) \; + \; \sin(\beta) \quad = \quad 2 \, \sin\left(\frac{\alpha+\beta}{2}\right) \cos\left(\frac{\alpha-\beta}{2}\right)$$

$$v \quad = \quad \sqrt{\frac{T}{\mu}}$$