

$$v = \frac{\lambda}{T} \rightarrow v = \lambda f$$

N. 2 PAG 636

$$f = 60 \text{ Hz}$$

$$\lambda = ?$$

$$v = \lambda f$$

$$\lambda = \frac{v}{f}$$

$$\lambda = \frac{343 \text{ m/s}}{60 \text{ 1/s}} \quad \text{5,6 m}$$

N. 7 PAG 636

$$1510 \text{ m/s}$$

$$t = 2,00 \text{ s}$$

$$t = \frac{2L}{v}$$

$$2,00 \text{ s} = \frac{x}{1510 \text{ m/s}}$$

$$x = 2,00 \cdot 1510 \text{ m/s} \rightarrow 3020 \text{ m}$$

$$2L = 3020 \text{ m} \rightarrow L = 1510 \text{ m}$$

N. 8 PAG 636

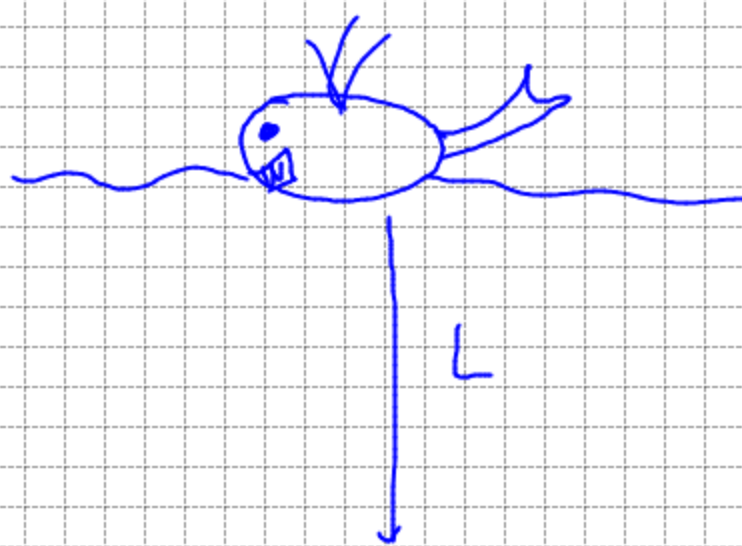
$$L = 1,5 \cdot 10^2 \text{ m}$$

t

$$t = \frac{2L}{v}$$

$$t = \frac{2 \cdot 1,5 \cdot 10^2 \text{ m}}{1510 \text{ m/s}}$$

$$t = 0,2 \text{ s}$$



N. 10 PAG 637

$$x = 20 \text{ Km} \quad 20 \cdot 10^3 \text{ m}$$

$$v_x = 6,1 \cdot 10^2 \text{ m/s}$$

$$v = \frac{d}{t} \rightarrow t = \frac{d}{v}$$

$$t = \frac{20 \cdot 10^3 \text{ m}}{6,1 \cdot 10^2 \text{ m/s}} \quad t = 32,8 \text{ s}$$

$$\Delta t = \frac{L}{v} \rightarrow \frac{20 \cdot 10^3 \text{ m}}{343 \text{ m/s}} \quad \Delta t = 58,3 \text{ s}$$

$$t = \Delta t - t_1 = 26 \text{ s}$$