

T1-29

S. 27

$$a) s = 11 \text{ m}$$

$$T = \frac{32s}{10} = 3,2s$$

$$n = 10$$

$$t_1 = 32s$$

$$t_2 = 4s$$

$$f = \frac{1}{T} = \frac{1}{3,2s} = 0,3125 \text{ Hz}$$

$$V = \frac{s}{t_2} = \frac{11 \text{ m}}{4s} = 2,75 \text{ m/s}$$

Auttolikkoon perustatäältä

$$v = \lambda \cdot f$$

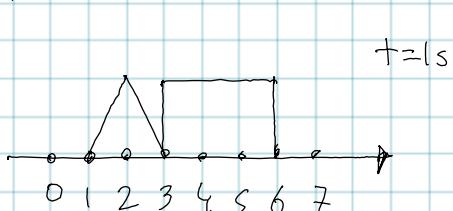
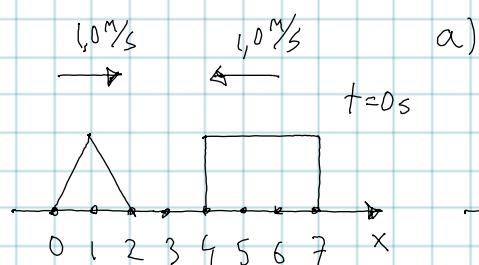
$$\lambda = \frac{v}{f} = \frac{3,75 \text{ m/s}}{0,3125 \text{ Hz}}$$

$$\lambda \approx \underline{\underline{9 \text{ m}}}$$

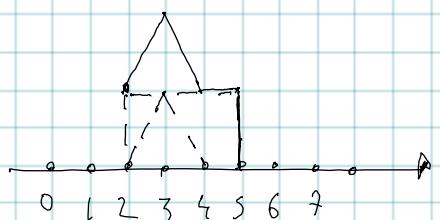
$$b) \frac{11 \text{ m}}{8,8 \text{ m}} \approx 1,3$$

Välvksen pituuselle matkaalle määritetyi ylesivälinen kokonaisinen aalto,

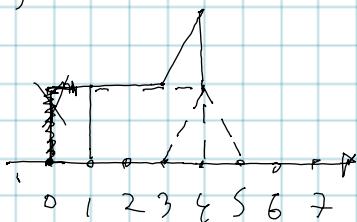
T1-31



b)



c)



d)

