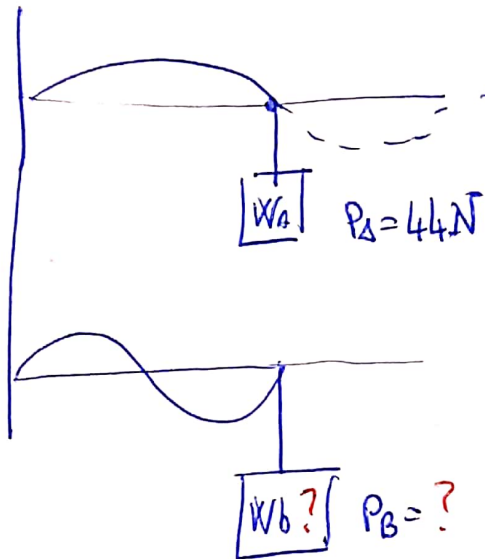


ESERCITAZIONE n°4

ONDE STAZIONARIE



$$\lambda_A = 2\lambda_B$$

$$v_{\text{CORDA}} = \sqrt{\frac{F}{\mu/L}}$$

TENSIONE
DELLA CORDA
IN QUESTO
CASO E'
IL PESO $W_A = W_B$

la frequenza è la stessa $f_A = f_B$

essendo $v = \lambda f$
si ha: $f = \frac{v}{\lambda}$

$$\frac{v_A}{\lambda_A} = \frac{v_B}{\lambda_B}$$

$$\frac{\sqrt{\frac{W_A}{\mu/L}}}{2\lambda_B} = \frac{\sqrt{\frac{W_B}{\mu/L}}}{\lambda_B}$$

$$\sqrt{\frac{W_A}{\mu/L}} = 2 \sqrt{\frac{W_B}{\mu/L}}$$

$$\frac{W_A}{\mu/L} = 4 \frac{W_B}{\mu/L}$$

$$W_B = \frac{W_A}{4} = \frac{44 \text{ N}}{4} = \boxed{11 \text{ N}}$$