

$$\begin{array}{c} \square + \\ \downarrow \\ \Delta + \end{array}$$

$$y_B = 1$$

The diagram shows a circuit with a central diamond-shaped network. The left node of the diamond is connected to a 10V AC voltage source. The top node is connected to a $30\angle 0^\circ \Omega$ impedance. The right node is connected to a $20\angle 0^\circ \Omega$ impedance. The bottom node is connected to a $40\angle 0^\circ \Omega$ impedance. The rightmost node is connected to a $20\angle 0^\circ \Omega$ impedance. The circuit is drawn on a blue grid background.

$$m_{EB} = \frac{1025}{l}$$

$$M_{KB} = -\frac{6EJ}{l^2} + \frac{3EJ}{l^2} = -\frac{3EJ}{l^2}$$

$$M = 1$$

A diagram of a cable supported at three points. The central support is at the top, and the two side supports are at the bottom. The cable is represented by a curved line. The central support is labeled with a blue circle and a blue arrow pointing upwards. The side supports are labeled with blue circles and blue arrows pointing upwards. The cable is labeled with a blue circle and a blue arrow pointing upwards. The forces are labeled with blue text: $\frac{3w}{l^2}$ on the left, $\frac{w}{l^2}$ in the center, and $\frac{w}{l^2}$ on the right. The deflection is labeled with a blue circle and a blue arrow pointing upwards.

$$M_{B/C} = \frac{3EJ}{l^2}$$

$$\delta_{AM} = -\frac{15 \text{ ES}}{l^3} - \frac{39}{10} \frac{\text{ES}}{l^3} = -\frac{189}{10} \frac{\text{ES}}{l^3}$$

$$q \neq 0$$

$$m_{D_9} = \left(\frac{1}{5} + \frac{2}{15} \right) q l^2 = \frac{1}{15} q l^2$$

$$\ln q = \frac{4}{5} q^2 + q = \frac{9}{5} q^2$$

$\sigma \neq 0$

$$M_{BA} = -\frac{155}{10} \text{ kN}$$

$$h_{MS} = + \frac{477}{10} \text{ pl}$$

$$P \neq 0$$

$$M_B P = 0$$

$$h_{mp} = \frac{98}{4}$$

$$\frac{10EJ}{l} \varphi_B + \frac{3EJ}{l^2} M_B + \left[\frac{1}{15} ql^2 - \frac{159}{10} ql^2 \right] = 0$$

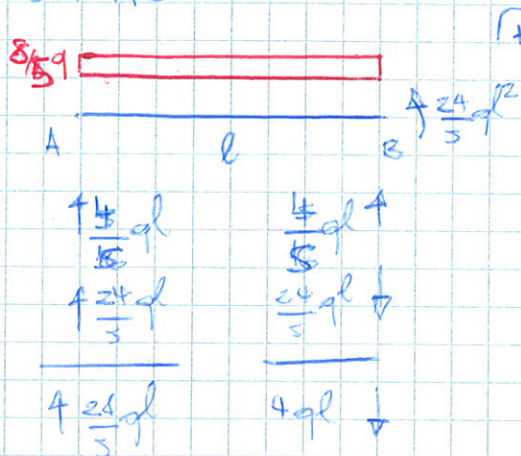
$$-\frac{3EJ}{l^2} \varphi_B - \frac{159}{10} M_B + \left[\frac{3ql}{5} + \frac{477ql}{10} + \frac{ql}{4} \right] = 0$$

$$159/4 \cdot ql^2$$

$$\rightarrow \varphi_B = 5/6 ql^3/EJ$$

$$M_B = 5/2 ql^4/EJ$$

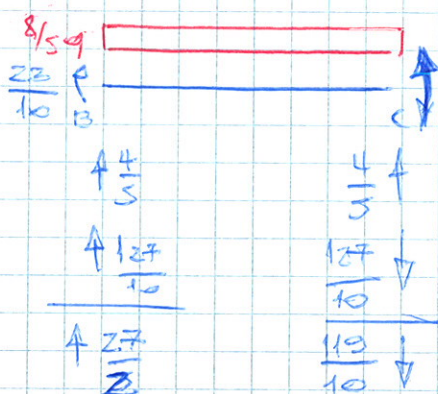
ASTA AB



$$M_B = \frac{5}{2} ql^2 - \frac{15}{2} ql^2 + \frac{1}{5} ql^2$$

$$= \frac{25+2-75}{10} ql^2 = -\frac{24}{5} ql^2$$

ASTA BC



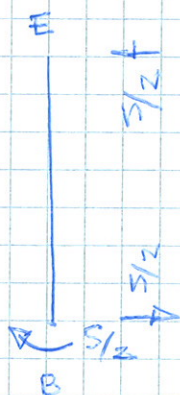
$$P + M_B = \frac{10}{3} ql^2 + 15 ql^2 - \frac{2}{15} ql^2 - \frac{159}{5} ql^2$$

$$= \frac{100+450-4-477}{30} ql^2 = \frac{69}{30} ql^2 = \frac{23}{10} ql^2$$

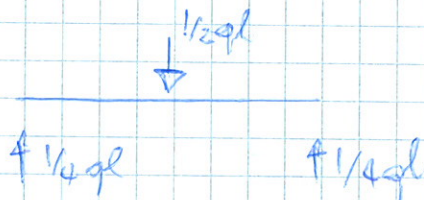
$$P + M_C = \frac{5}{3} ql^2 + 15 ql^2 + \frac{2}{15} ql^2 - \frac{159}{15} ql^2$$

$$= \frac{50+450+4-159}{30} ql^2 = \frac{345}{30} ql^2 = 11.5 ql^2$$

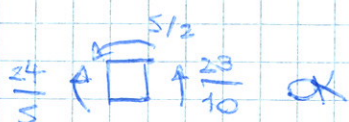
ASTA BE



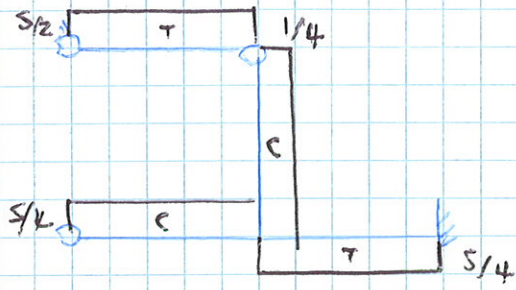
ASTA DE



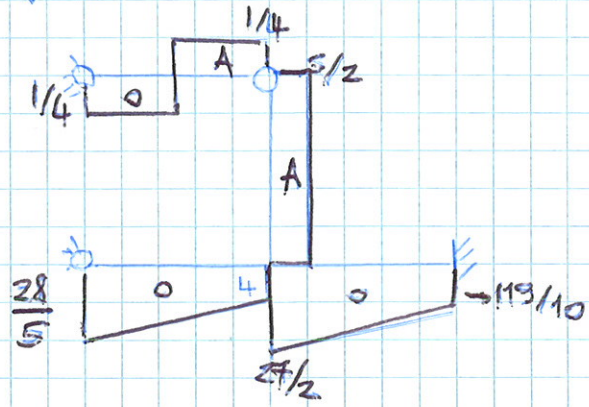
Nodo B



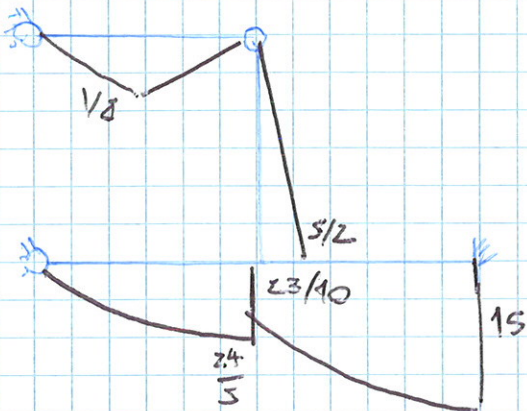
N



V



M



DEFORMATA

