

$$C_y(6m) = 3 \text{ ton.m} - P(3m)$$

$$C_y = 3 \text{ ton.m} / 6m - P(3m / 6m)$$

$$C_y = 0.5 \text{ ton} - 0.5P$$

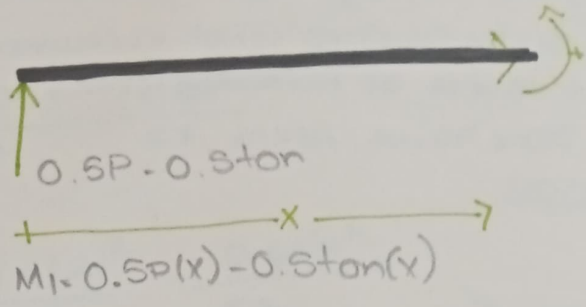
$$A_y - P + C_y = 0$$

$$A_y = P(0.5 \text{ ton} - 0.5P)$$

$$A_y = 0.5P - 0.5 \text{ ton}$$

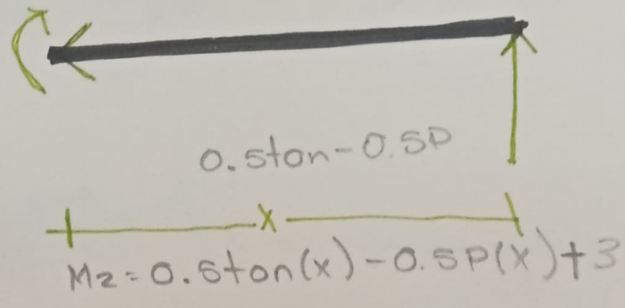
CORTE 1

$$0 \leq x \leq 3$$



CORTE 2

$$0 \leq x \leq 3$$



$$\frac{\partial M}{\partial P} = 0.5x$$

$$\frac{\partial M}{\partial P} = 0.5x$$

INTEGRAL

$$\Delta \int_0^3 \frac{M(\frac{\partial M}{\partial P})}{EI} dx = \Delta \int_0^3 \frac{(0.5x - 0.5x)}{EI} dx + \int_0^3 \frac{(0.5x - 3)(0.5x)}{EI} dx$$

$$\Delta \frac{1}{EI} \int_0^3 (0.25x^2) dx = \int_0^3 \frac{0.25x^{2+1}}{2+1} = \int_0^3 \frac{0.083x^3}{1} = \int_0^3 \frac{0.083x^3}{EI}$$

$$\frac{+0.083(3)^3}{EI} - \frac{0.083(0)^3}{EI} = \frac{0.083(27)}{EI} = 2.241$$

$$\Delta \frac{1}{EI} \int_0^3 (0.25x^2 + 1.5x) dx = \Delta \int_0^3 \frac{0.25x^{2+1} + 1.5x^{1+1}}{3 \quad 2} = \int_0^3 \frac{0.083x^3 + 0.75x^2}{1}$$

$$\Delta \frac{0.083x^3 + 0.75x^2}{EI} = \int_0^3 \frac{0.083x^3 + 0.75x^2}{EI} = \frac{0.083(3)^3}{EI} - \frac{0.083(0)^3}{EI} + \frac{0.75(3)^2}{EI} - \frac{0.75(0)^2}{EI}$$

$$\frac{0.083(27)}{EI} + \frac{(0.75)(9)}{EI} = \frac{-2.241}{EI} + \frac{6.75}{EI} = \frac{4509}{EI} = \frac{2.268}{EI}$$