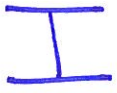


$$P = mg = 600 \times 9,81 = 5890 \rightarrow 5900 \text{ N}$$

IPE 240



$$R_A + R_B = 5900$$

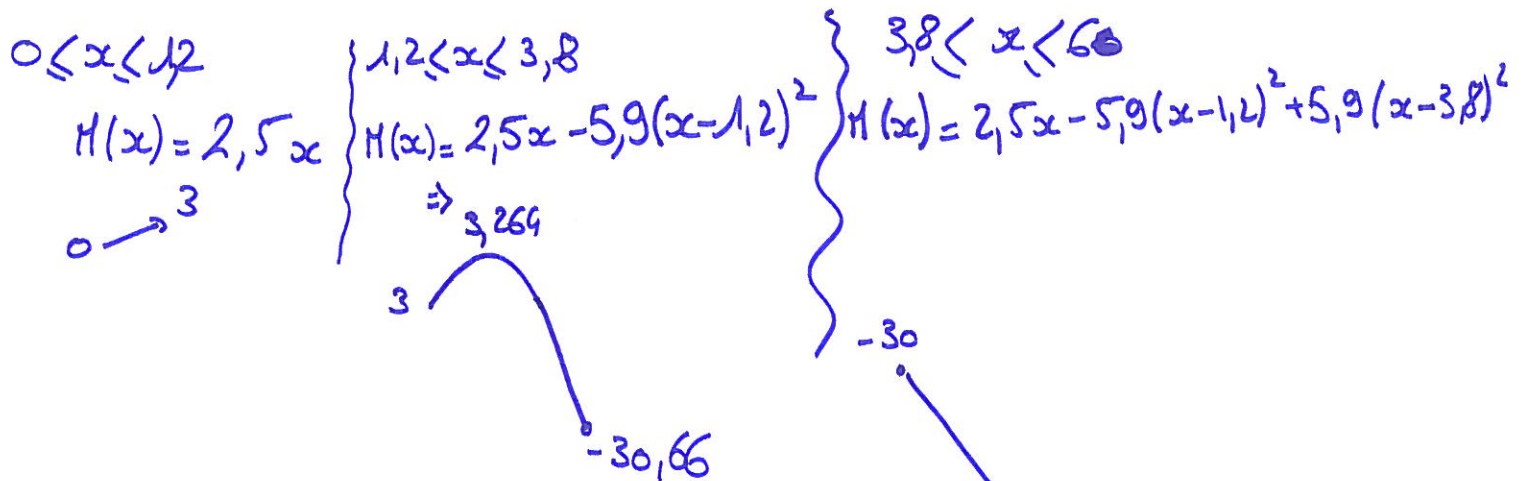
$$\sum M_A = 2,50(-5900) + 6R_B = 0$$

$$\Rightarrow R_B = 2458 \text{ N} \rightarrow 2,5 \text{ kN}$$

$$\text{ou } R_A = 3442 \text{ N} \rightarrow 3,5 \text{ kN}$$

$$q(x) = 2,5(x)_{-1} - 5,9(x-1,2)_0 + 5,9(x-3,8)_0 + 3,5(x-6)_{-1}$$

$$M(x) = 2,5(x)_1 - 5,9(x-1,2)_1^2 + 5,9(x-3,8)_1^2 + 3,5(x-6)_1$$



$$\sigma_{\text{max}} = \frac{|M_{\text{max}}| y}{I_y} \rightarrow ?$$

$I_y = I_x = 38920000 \text{ mm}^4$ d'après la fiche technique

$$I_y = I_{y_{\text{CT}}} + Sd^2$$

I_x sur la fiche technique

$$EI v''(x) = M(x)$$

$$\hookrightarrow I_y = ?$$