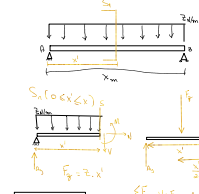
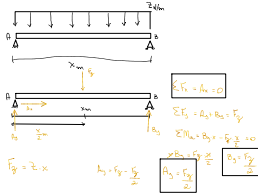


Resolução Para carga distribuída retangular



$$\sum M_B = 0 = M + F_y \frac{x'}{2} - A_y x'$$

$$M = A_y x' - F_y \frac{x'}{2} \rightarrow \left(\frac{qx}{2} \right) x' - \left(\frac{qx}{2} \right) \frac{x'}{2}$$

$$M = \left[\frac{qx}{2} x' \right] - \left(\frac{qx}{2} \right) \frac{x'}{2}$$

$$M = A_y x' - \frac{q}{2} x'^2$$

$$M = \frac{qx}{2} x' - \frac{q}{2} x'^2$$

$$M = \frac{q}{2} (x x' - x'^2)$$

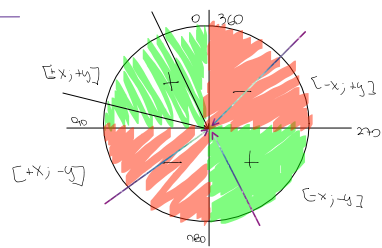
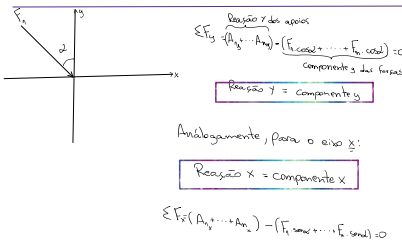
calculo para versao 1H (só forças pontuais)

2 apoios: 1-2 (mais duas extremidades)

N forças no intervalo n/2 (mais duas forças distribuídas)

Força pode ser de compressão ou tração

3 direções: normal, cortante, momento fletor



$$V = q \left(x' - \frac{x'}{2} \right)$$

$$V = q \left(x' - \frac{x'}{2} \right)$$

$$V = q \left(x' - \frac{x'}{2} \right)$$

$$M = \frac{q}{2} x'^2 - \frac{q}{2} x'^2$$

$$M = \frac{q}{2} x'^2 - \frac{q}{2} x'^2$$

$$M = \frac{q}{2} x'^2 - \frac{q}{2} x'^2$$

