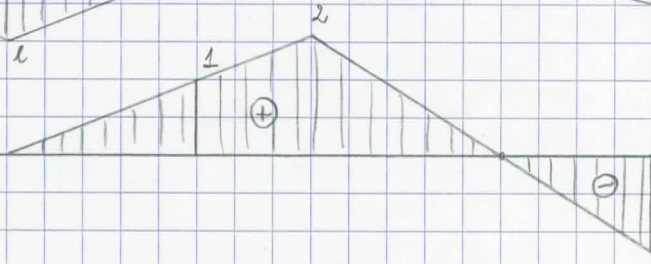
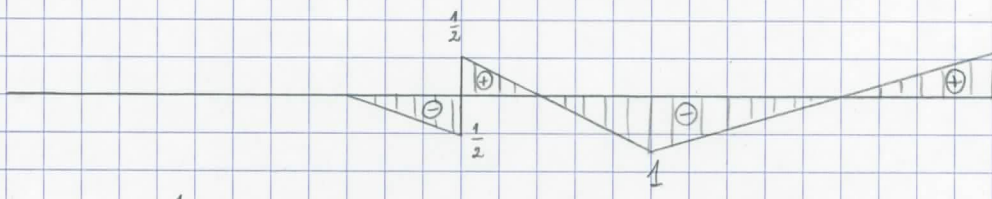


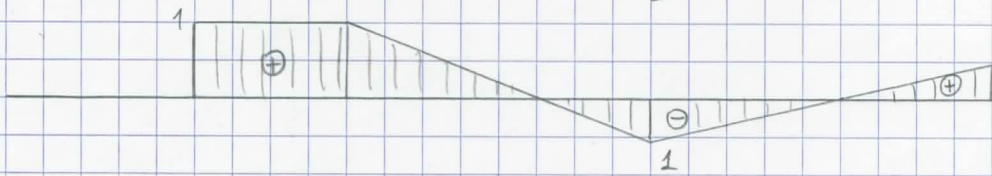
$l_{wp} M_c$
 $\frac{2}{3}l$



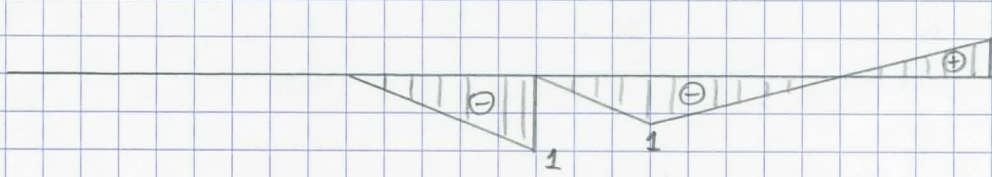
$l_{wp} R_F$
 $\frac{4}{3}$



$l_{wp} T_E$
 $\frac{2}{3}$



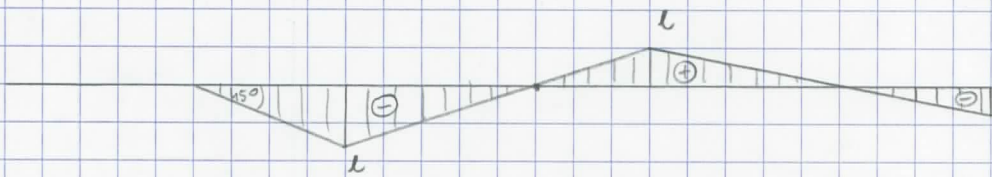
$l_{wp} T_{CF}$
 $\frac{2}{3}$



$l_{wp} T_{FL}$
 $\frac{2}{3}$



$l_{wp} M_H$
 $\frac{2}{3}$



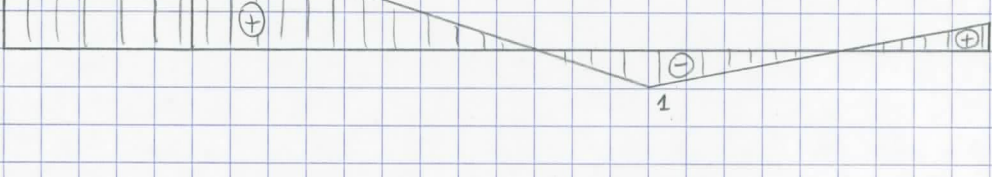
$l_{wp} M_c$
 $\frac{2}{3}l$



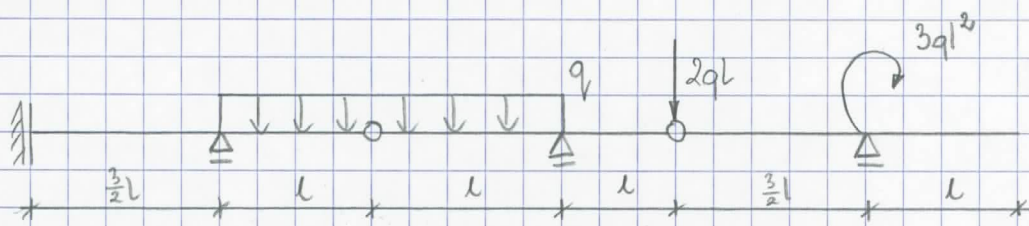
$l_{wp} M_i$
 l



$l_{wp} T_{cl}$



$l_{wp} R_c$
 $\frac{2}{3}$



$$M_B = q \cdot \left(-\frac{1}{2} \cdot l \cdot 2l\right) + 2ql \cdot l - 3ql^2 \cdot \frac{\frac{2}{3}l}{l} = -ql^2$$

$$R_F = q \cdot \left(\frac{1}{2} \cdot 1 \cdot l\right) + 2ql \cdot 2 - 3ql^2 \cdot \frac{\frac{4}{3}}{l} = \frac{1}{2}ql$$

$$T_E = q \cdot \left(\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}l - \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}l\right) + 2ql \cdot (-1) + 3ql^2 \cdot \frac{\frac{2}{3}}{l} = 0$$

$$T_{CP} = q \cdot \left(1 \cdot l + \frac{1}{2} \cdot 1 \cdot l\right) + 2ql \cdot (-1) + 3ql^2 \cdot \frac{\frac{2}{3}}{l} = \frac{3}{2}ql$$

$$T_{FL} = q \cdot \left(-\frac{1}{2} \cdot 1 \cdot l\right) + 2ql \cdot (-1) + 3ql^2 \cdot \frac{\frac{2}{3}}{l} = -\frac{1}{2}ql$$

$$M_H = -3ql^2 \cdot \frac{\frac{2}{3}}{l} = -2ql^2$$

$$M_C = q \cdot \left(-\frac{1}{2} \cdot l \cdot 2l\right) + 2ql \cdot l - 3ql^2 \cdot \frac{\frac{2}{3}l}{l} = -ql^2$$

$$M_I = -3ql^2 \cdot \frac{l}{l} = -3ql^2$$

$$T_{cl} = 0$$

$$R_c = q \cdot \left(1 \cdot l + \frac{1}{2} \cdot 1 \cdot l\right) + 2ql \cdot (-1) + 3ql^2 \cdot \frac{\frac{2}{3}}{l} = \frac{3}{2}ql$$