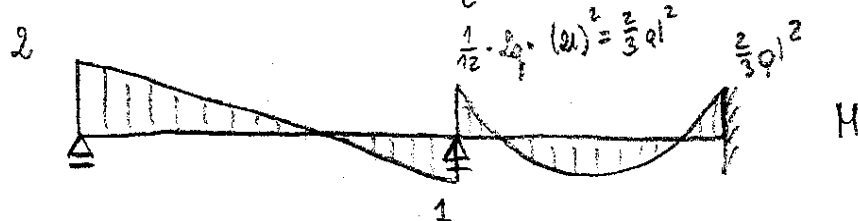
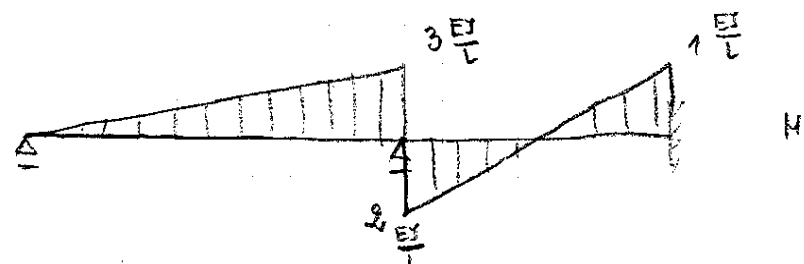
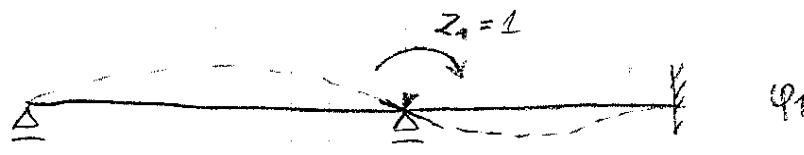
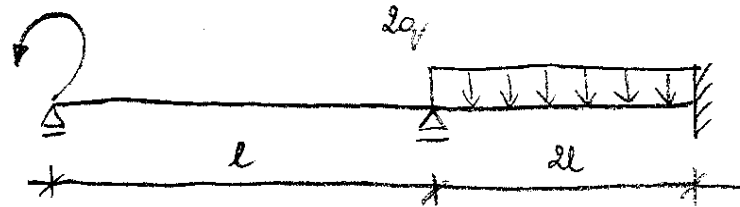


$$2ql^2$$



$\varphi_1$

$M_1$

$M_p [ql^2]$

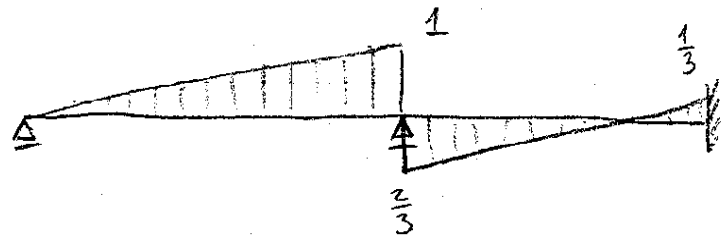
$$M_{AA} Z_1 + R_{AP} = 0$$

$$M_{AA} = (2 + 3) \frac{EI}{l} = 5 \frac{EI}{l}$$

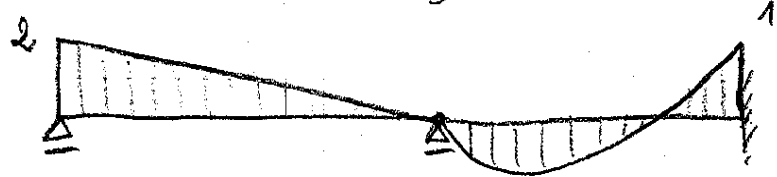
$$R_{AP} = \left(-1 - \frac{2}{3}\right) = -\frac{5}{3} ql^2$$

$$Z_1 = -\frac{R_{AP}}{M_{AA}} = \frac{5}{3} \frac{ql^2}{5 \frac{EI}{l}} = \frac{1}{3} \frac{ql^3}{EI}$$

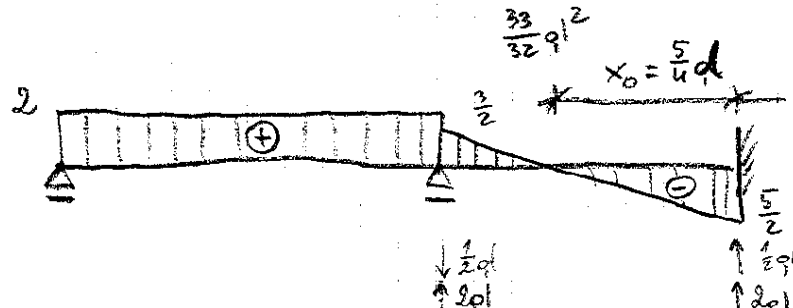
$$\begin{aligned} M_{max} &= -1ql^2 + \frac{5}{2}ql \cdot \frac{5}{4}l - \\ &= -ql^2 + \frac{25}{8}ql^2 - \frac{25}{32}ql^2 = \\ &= -\frac{32}{32}ql^2 + \frac{100}{32}ql^2 - \frac{35}{32}ql^2 = \frac{33}{32}ql^2 \end{aligned}$$



$M_1 \cdot Z_1 [ql^2]$



$M [ql^2]$



$T [ql]$