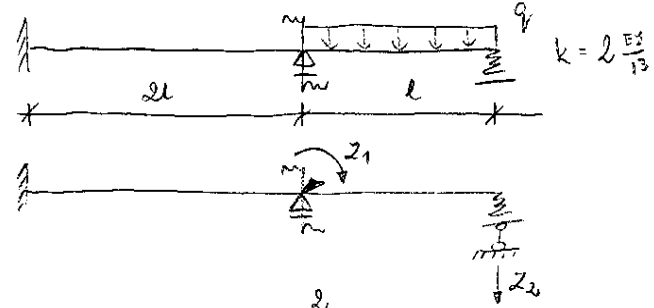


$$\alpha = 1 \frac{1}{2}$$



$$N_{11} = (3+2) \frac{EI}{l} + 1 \frac{EI}{l} = 6 \frac{EI}{l}$$

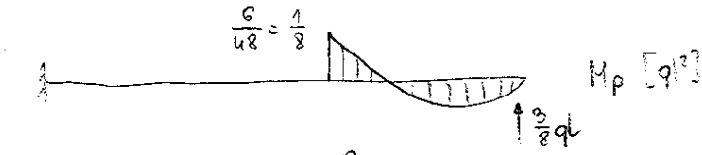
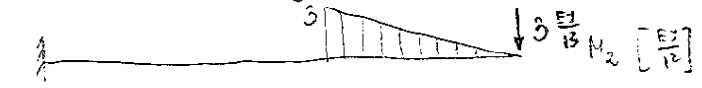
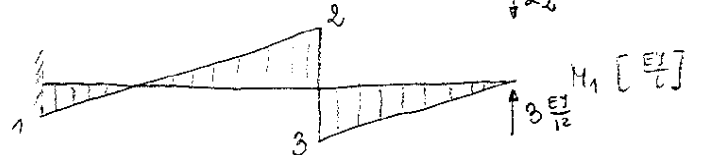
$$N_{12} = -3 \frac{EI}{l^2}$$

$$N_{21} = -3 \frac{EI}{l^2}$$

$$N_{22} = 3 \frac{EI}{l^3} + 2 \frac{EI}{l^3} = 5 \frac{EI}{l^3}$$

$$R_{1P} = -\frac{1}{8} ql^2$$

$$R_{2P} = -\frac{3}{8} ql$$



$$\begin{cases} 6 \frac{EI}{l} z_1 - 3 \frac{EI}{l^2} z_2 - \frac{1}{8} ql^2 = 0 \\ -3 \frac{EI}{l^2} z_1 + 5 \frac{EI}{l^3} z_2 - \frac{3}{8} ql = 0 \end{cases}$$

$$\begin{cases} z_1 = \frac{1}{12} = \frac{4}{48} \frac{ql^3}{EI} \\ z_2 = \frac{1}{8} = \frac{6}{48} \frac{ql^4}{EI} \end{cases}$$

