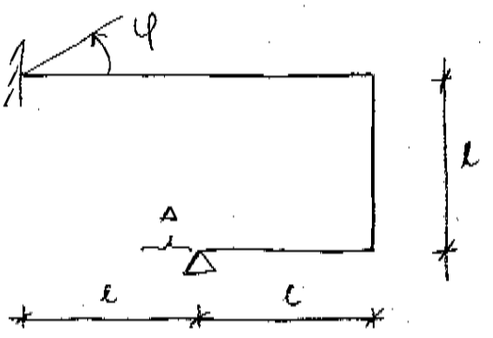
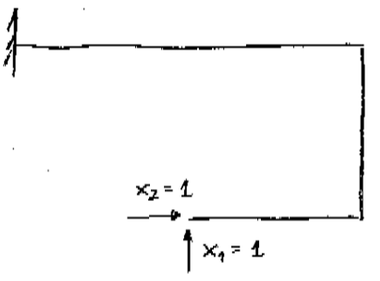
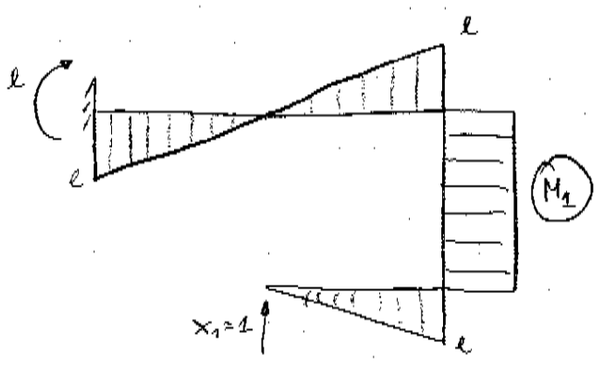
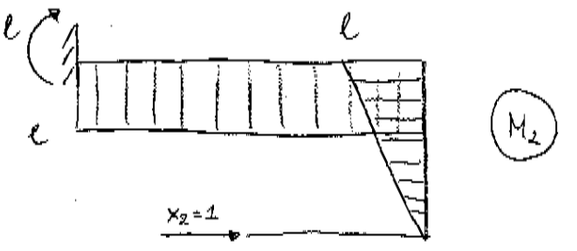








$\varphi = \frac{\Delta}{l}$

$$\delta_{11} = \frac{1}{EJ}\left[\frac{1}{2}\cdot l\cdot l\ \frac{2}{3}l + \frac{1}{2}\cdot l\cdot l\cdot\frac{2}{3}l + \frac{1}{2}\cdot l\cdot l\cdot\frac{2}{3}l + l\cdot l\cdot l\right] = 2\frac{l^3}{EJ}$$

$$\delta_{12} = \frac{1}{EJ}\left[\frac{1}{2}\cdot l\cdot l\cdot(-l)\right] = -\frac{1}{2}\frac{l^3}{EJ}$$

$$\delta_{21} = \frac{1}{EJ}\left[l\cdot l\cdot\left(-\frac{1}{2}l\right)\right] = -\frac{1}{2}\frac{l^3}{EJ}$$

$$\delta_{22} = \frac{1}{EJ}\left[l\cdot 2l\cdot l + \frac{1}{2}\cdot l\cdot l\ \frac{2}{3}l\right] = \frac{7}{3}\frac{l^3}{EJ}$$

$$\Delta_{1P} = -\sum R\cdot\Delta = -\left(-l\cdot\frac{\Delta}{l} - \Delta\cdot 0\right) = +\Delta$$

$$\Delta_{2P} = -\sum R\cdot\Delta = -\left(-l\cdot\frac{\Delta}{l} - \Delta\cdot 1\right) = +2\Delta$$

$$\begin{cases} 2\cdot x_1 - \frac{1}{2}\cdot x_2 + \Delta = 0 \\ -\frac{1}{2}\cdot x_1 + \frac{7}{3}\cdot x_2 + 2\Delta = 0 \ /\cdot 4 \end{cases}$$

$$+\begin{cases} 2\cdot x_1 - \frac{1}{2}x_2 + \Delta = 0 \\ -2\cdot x_1 + \frac{28}{3}\cdot x_2 + 8\Delta = 0 \end{cases}$$

$$\frac{28}{3}x_2 - \frac{1}{2}x_2 + 9\Delta = 0$$

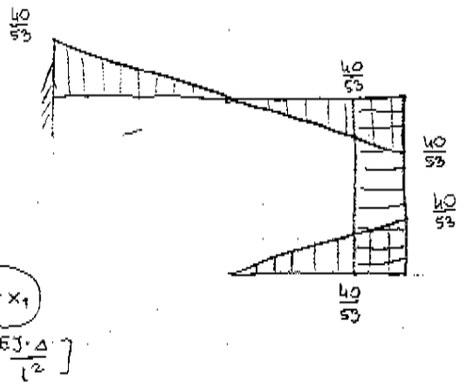
$$\frac{56}{6}x_2 - \frac{3}{6}x_2 + 9\Delta = 0$$

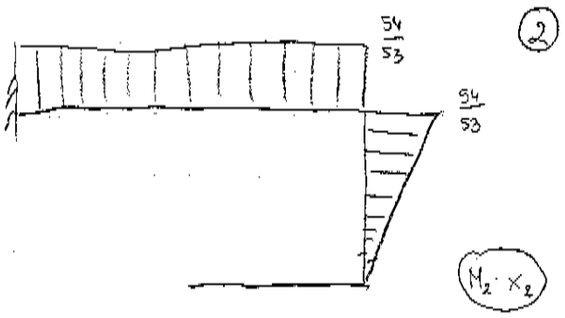
$$\frac{53}{6}\cdot x_2 = -9\Delta$$

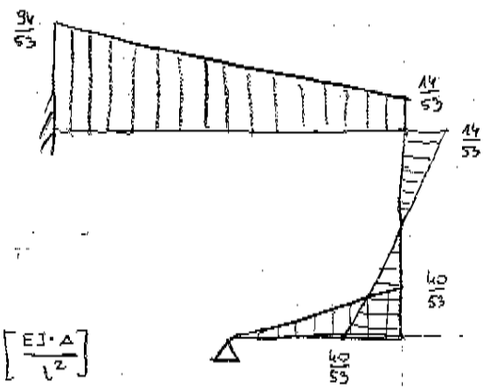
$$x_2 = -9\cdot\frac{6}{53} = -\frac{54}{53}\frac{EJ\cdot\Delta}{l^3}$$

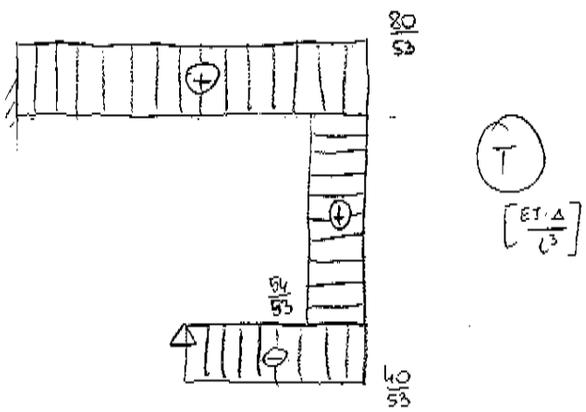
$$2x_1 + \frac{1}{2}\cdot\frac{27}{53}\cdot 1 = 0 \qquad 2x_1 = -\frac{80}{53}$$

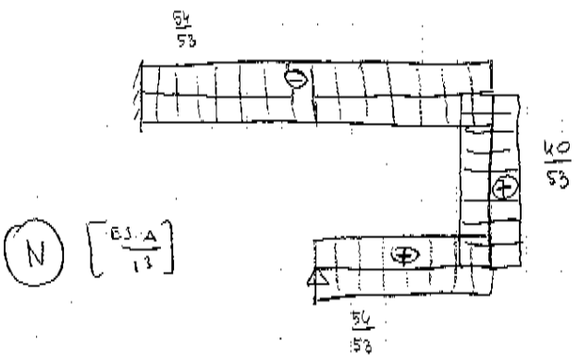
$$x_1 = -\frac{40}{53}\frac{EJ\cdot\Delta}{l^3}$$


$\frac{46}{53}$
$\frac{40}{53}$
$\frac{40}{53}$
$\frac{40}{53}$
$M_1 \cdot x_1$
$\left[\frac{EJ \cdot \Delta}{l^2}\right]$


(2)
$\frac{54}{53}$
$\frac{54}{53}$
$M_2 \cdot x_2$


$\frac{94}{53}$
$\frac{14}{53}$
$\frac{14}{53}$
$\frac{40}{53}$
$\frac{40}{53}$
M
$\left[\frac{EJ \cdot \Delta}{l^2}\right]$


$\frac{80}{53}$
$\frac{54}{53}$
$\frac{40}{53}$
T
$\left[\frac{EJ \cdot \Delta}{l^3}\right]$


$\frac{54}{53}$
$\frac{40}{53}$
$\frac{54}{53}$
N
$\left[\frac{EJ \cdot \Delta}{l^3}\right]$