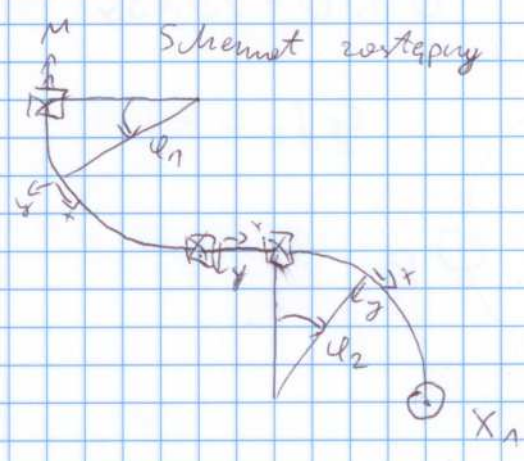
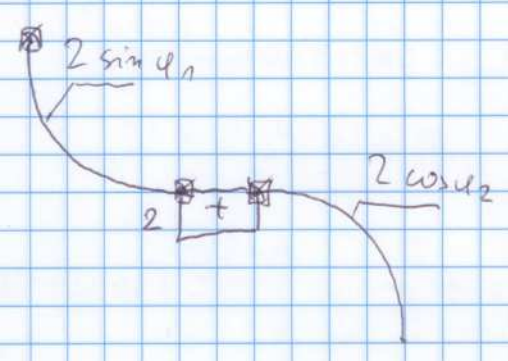


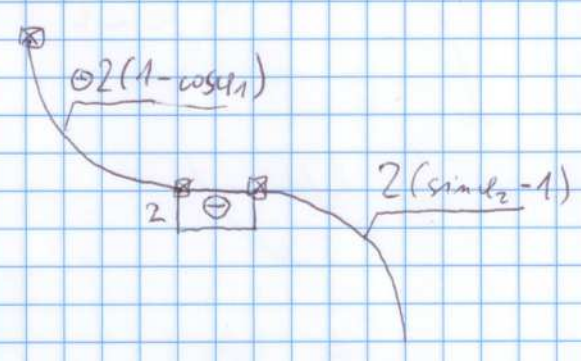
$EJ_s = \frac{1}{2} EJ$   
 $R_A = 2$



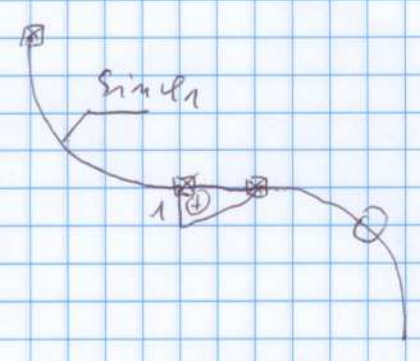
$M_1 [L]$



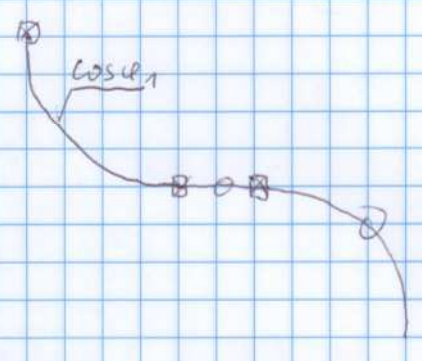
$M_1 [L]$



$M_0 [M]$



$M_0 [M]$



$$\delta_{11} = \frac{1}{EJ} \left( \int_0^{\frac{\pi}{2}} (2 \sin \varphi_1)^2 2l d\varphi_1 + (2l)^2 \cdot l + \int_0^{\frac{\pi}{2}} (2l \cos \varphi_2)^2 2l d\varphi_2 \right) + \frac{2}{EJ} \left( \int_0^{\frac{\pi}{2}} (-2l(1 - \cos \varphi_1))^2 2l d\varphi_1 + (2l)^2 \cdot l + \int_0^{\frac{\pi}{2}} (2l(\sin \varphi_2 - 1))^2 2l d\varphi_2 \right) = 35,96 \frac{l^3}{EJ}$$

$$\delta_{10} = \frac{1}{EJ} \left( \int_0^{\frac{\pi}{2}} 2l \sin \varphi_1 M \sin \varphi_2 2l d\varphi_1 + \frac{1}{2} M l \cdot 2l \right) + \frac{2}{EJ} \left( \int_0^{\frac{\pi}{2}} \ominus 2l(1 - \cos \varphi_1) M \cos \varphi_1 2l d\varphi_1 \right) = 2,42 \frac{M l^3}{EJ}$$

$$X_A = -\frac{\delta_{10}}{\delta_{11}} = \ominus 0,107 \frac{M}{l}$$

$R_A = X_A = \ominus 0,067 \frac{M}{l}$