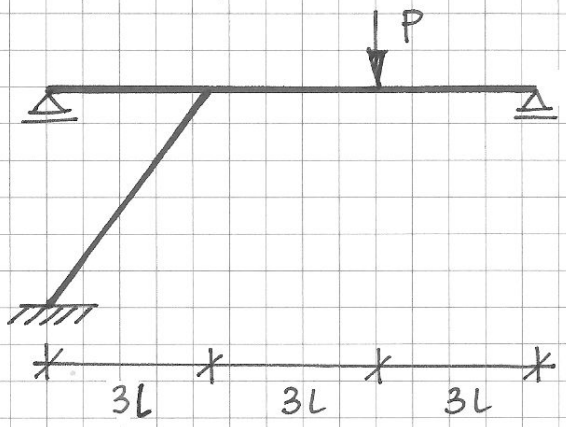
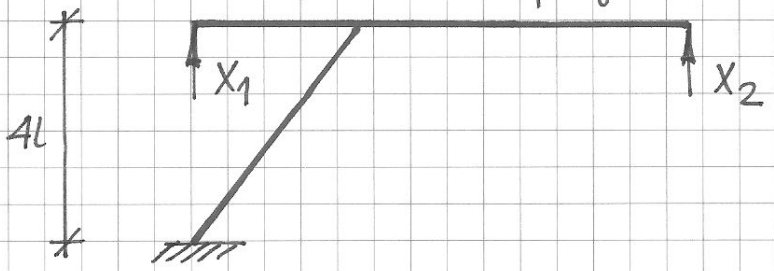
MK1 kolokwium 1.3a , r.ak. 2015/2016

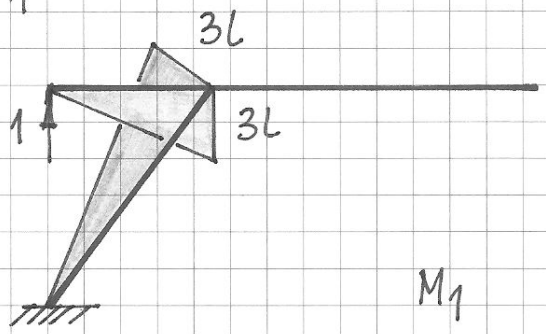
Wyznaczyć wykres M EJ = const. EA = ∞



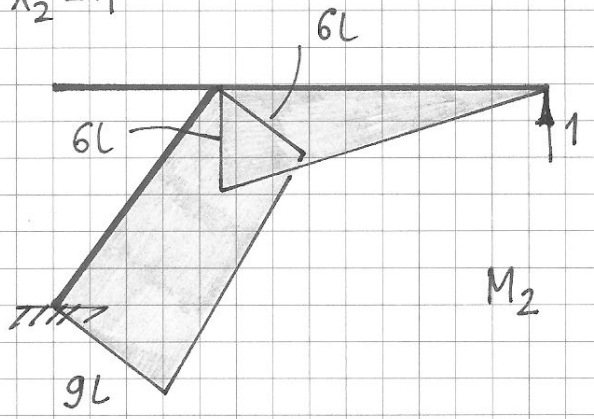
Schemat zastępczy:



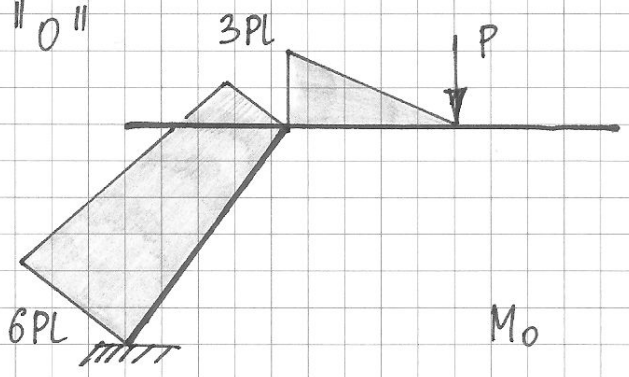
$X_1 = 1$



$X_2 = 1$



"0"



$$\delta_{11} = 24 \frac{l^3}{EJ}$$

$$\delta_{12} = \delta_{21} = -\frac{105}{2} \frac{l^3}{EJ}$$

$$\delta_{22} = 357 \frac{l^3}{EJ}$$

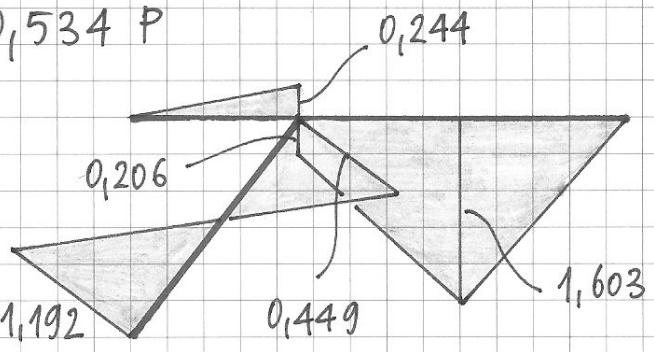
$$\delta_{10} = 30 \frac{Pl^3}{EJ}$$

$$\delta_{20} = -195 \frac{Pl^3}{EJ}$$

$X_1 = -0{,}0813\,P$

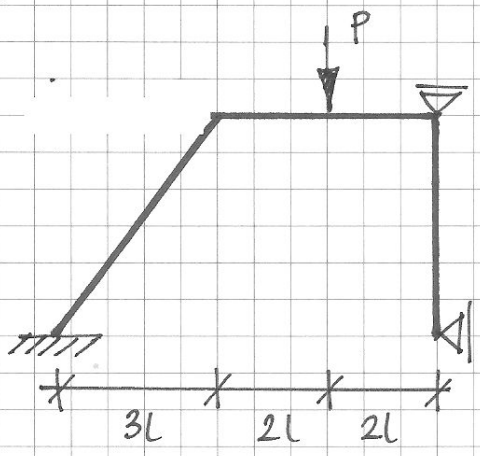
$X_2 = 0{,}1534\,P$

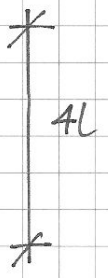
$\frac{M}{PL}$



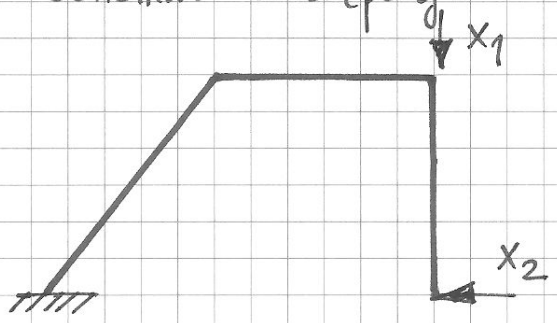
MK1 kolokwium 1.3b r. ak. 2015/2016

Wyznaczyć wykres M EJ = const. EA = ∞

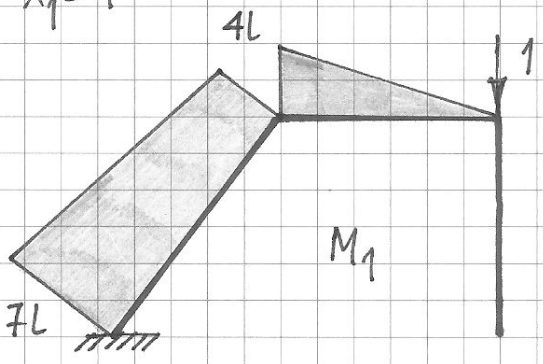




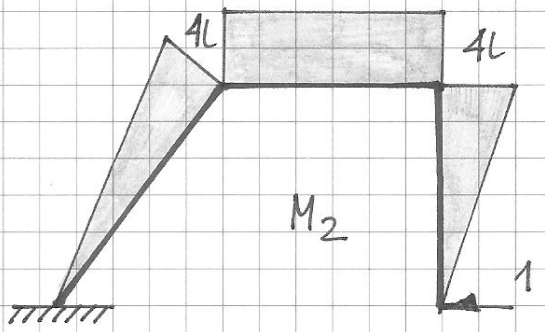
Schemat zastępczy:



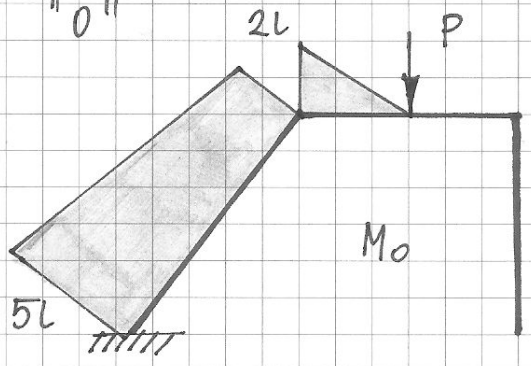
$X_1 = 1$



$X_2 = 1$



"0"



$$\delta_{11} = \frac{529}{3}\,\frac{l^3}{EJ}$$

$$\delta_{12} = \delta_{21} = 82\,\frac{l^3}{EJ}$$

$$\delta_{22} = 112\,\frac{l^3}{EJ}$$

$$\delta_{10} = \frac{320}{3}\,\frac{Pl^3}{EJ}$$

$$\delta_{20} = 38\,\frac{Pl^3}{EJ}$$

$X_1 = -0{,}678\,P$

$X_2 = 0{,}157\,P$