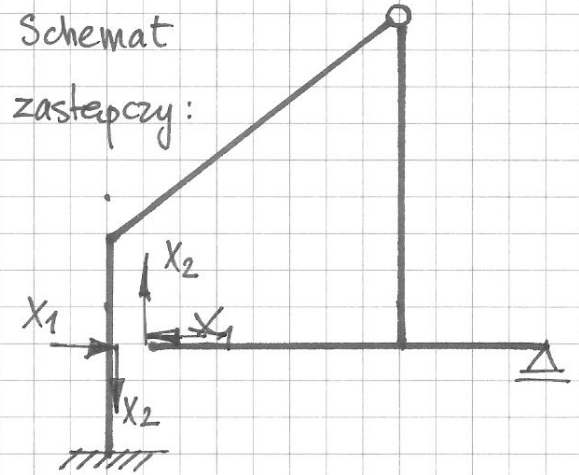
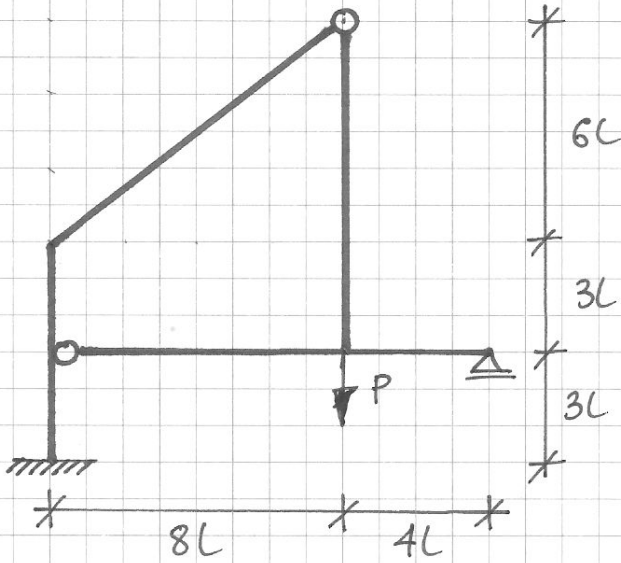


Kolokwium z MK1, 1.1a, r.ak. 2015/16

Narysować wykres M.

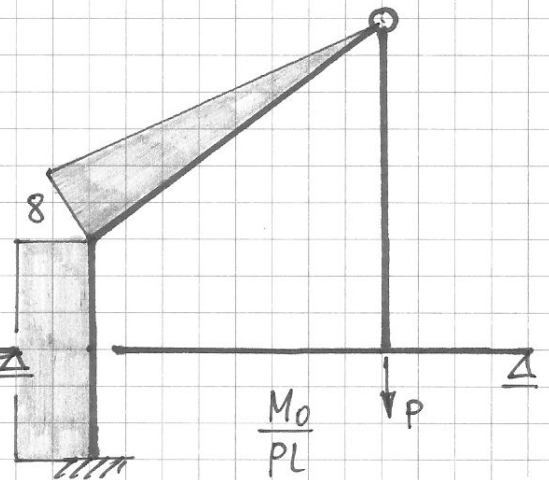
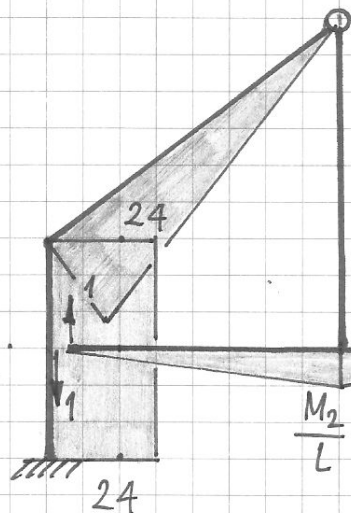
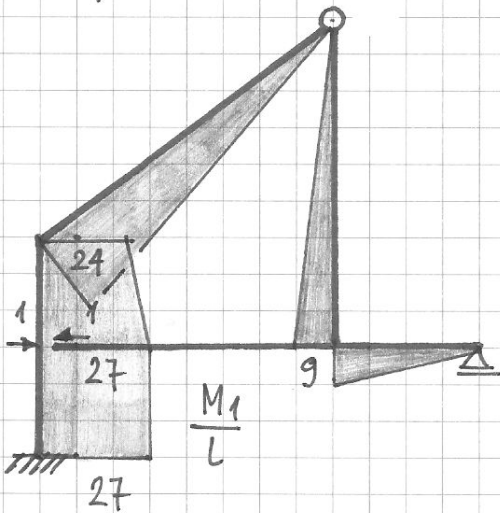
$EJ = \text{const.}$, $\epsilon E = 0$ ($EA = \infty$)



$X_1 = 1$

$X_2 = 1$

"0"



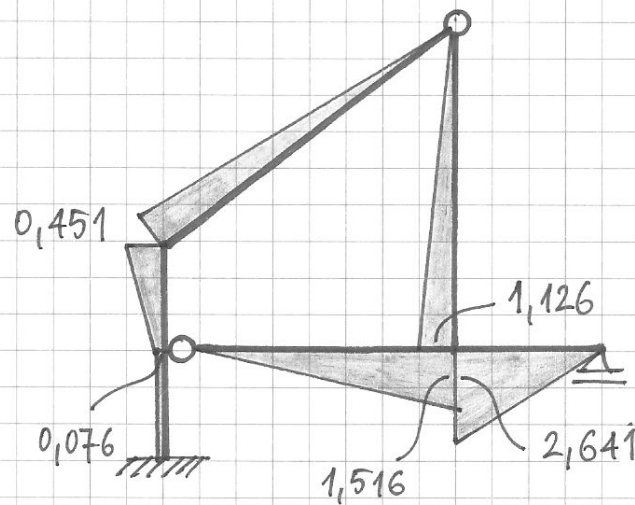
$$\delta_{11} = 6411 \frac{L^3}{EJ}$$

$$\delta_{12} = \delta_{21} = 5796 \frac{L^3}{EJ}$$

$$\delta_{22} = 5632 \frac{L^3}{EJ}$$

$$\delta_{10} = -1900 \frac{PL^3}{EJ}$$

$$\delta_{20} = -1792 \frac{PL^3}{EJ}$$

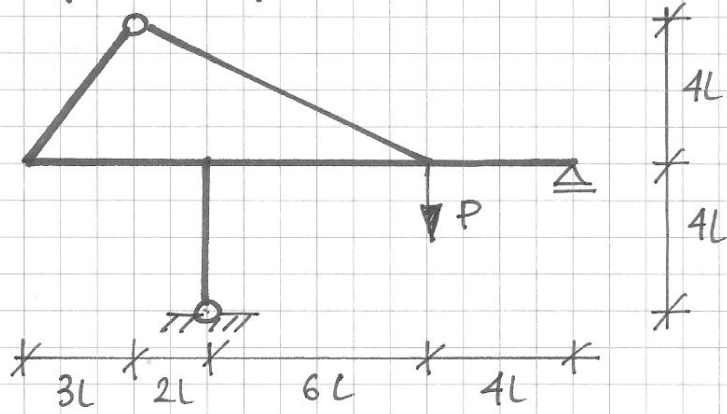


$$X_1 = 0,125 P$$

$$X_2 = 0,189 P$$

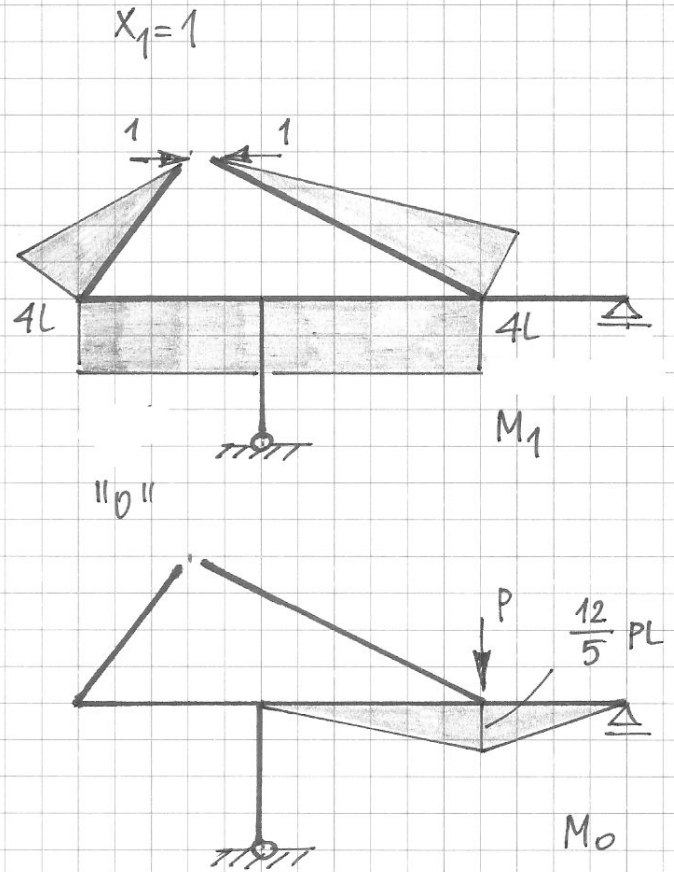
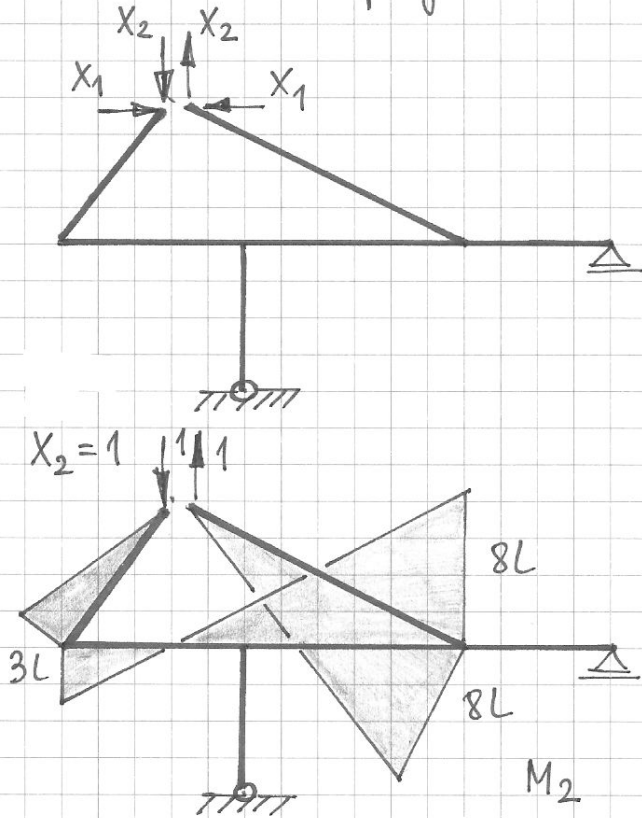
Kolokwium z MK1, 1.1b, r.ak. 2015/16

Narysować wykres M



$EJ = \text{const.}$
 $\epsilon_E = 0 \quad (EA = \infty)$

Schemat zastępczy:



$$\delta_{11} = 250,369 \frac{L^3}{EJ}$$

$$\delta_{12} = \delta_{21} = -185,406 \frac{L^3}{EJ}$$

$$\delta_{22} = 385,478 \frac{L^3}{EJ}$$

$$\delta_{10} = 28,8 \frac{PL^3}{EJ}$$

$$\delta_{20} = -43,2 \frac{PL^3}{EJ}$$

$$X_1 = -0,05 P$$

$$X_2 = 0,088 P$$

