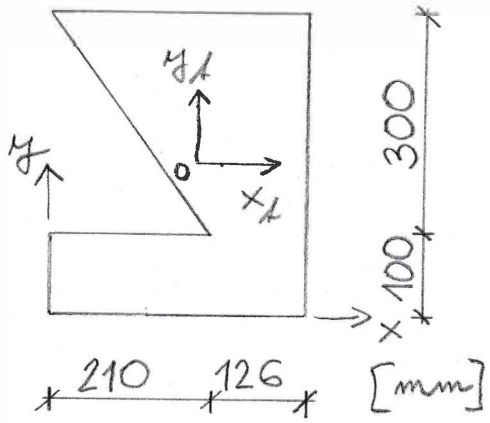
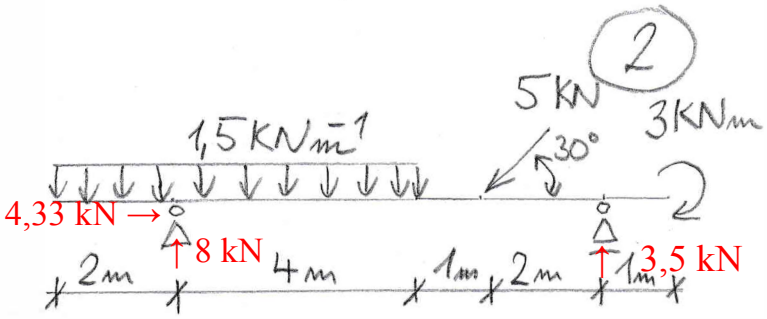


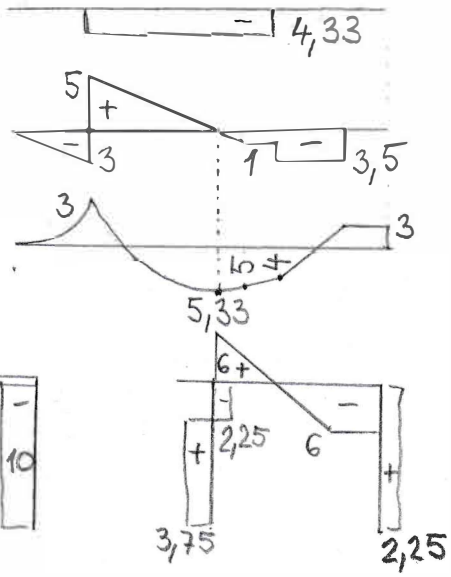
(1) $x_1 = \frac{336 \cdot 400 \cdot 168 - 150 \cdot 210 \cdot 70}{336 \cdot 400 - 150 \cdot 210} =$

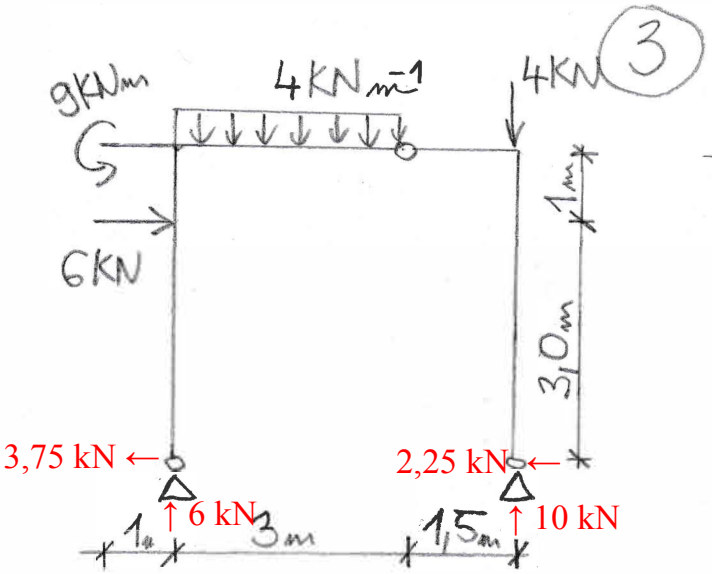
$= 198\ mm$

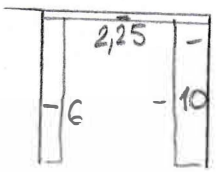
$y_1 = \frac{336 \cdot 400 \cdot 200 - 150 \cdot 210 \cdot 200}{-\!\!/\!\!-} = 200\ mm$

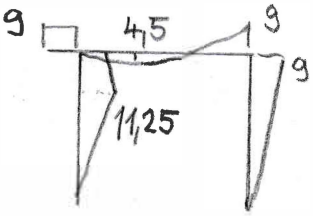
$D_{x_1 y_1} = 0 + 0 - \left[-\frac{1}{72} \cdot 210^2 \cdot 300^2 + 0\right] = 55{,}125 \cdot 10^6\ mm^4$

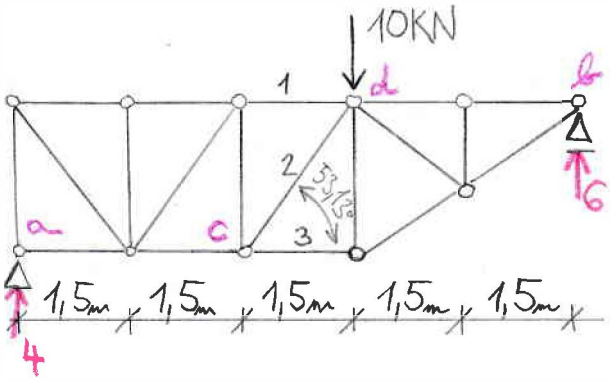












$\Sigma M_c = 0 \quad -4 \cdot 3 - N_1 2 = 0 \quad N_1 = -6\ kN$

$\Sigma M_d = 0 \quad N_3 2 - 4 \cdot 4{,}5 = 0 \quad N_3 = 9\ kN$

$\Sigma +_y = 0 \quad 4 + N_2 \cdot \sin 53{,}13° = 0 \quad N_2 = -5\ kN$

Průsečná metoda přes pruty 1, 2 a 3.