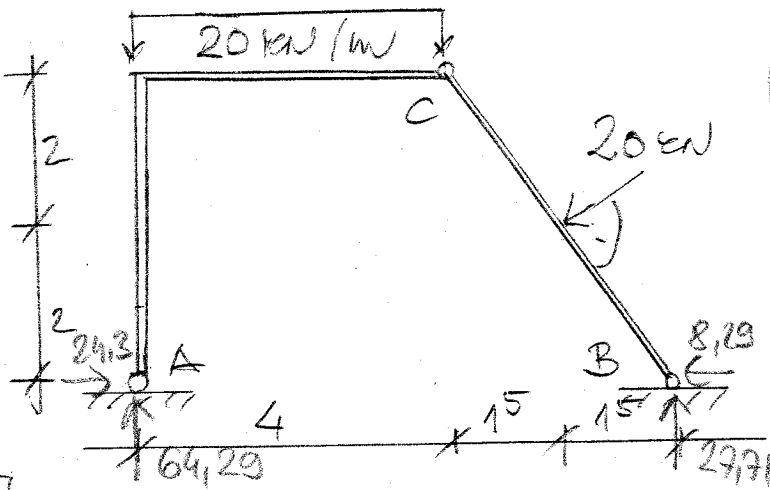


1. Rajzolja meg a tartó részletesen kótázott belsőerő ábráit!



$$\sum \Pi_A = 0$$

$$\left(\frac{20 \cdot 4^2}{2} + 20 \cdot 5.5 - 16 \cdot 2 \right) / 7 = B_V$$

$$B_V = 27,71 \uparrow$$

$$\sum \Pi_B = 0$$

$$(20 \cdot 4 \cdot 5 + 20 \cdot 2,5) / 7 = A_V$$

$$A_V = 64,29 \uparrow$$

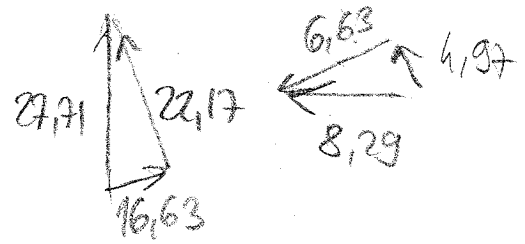
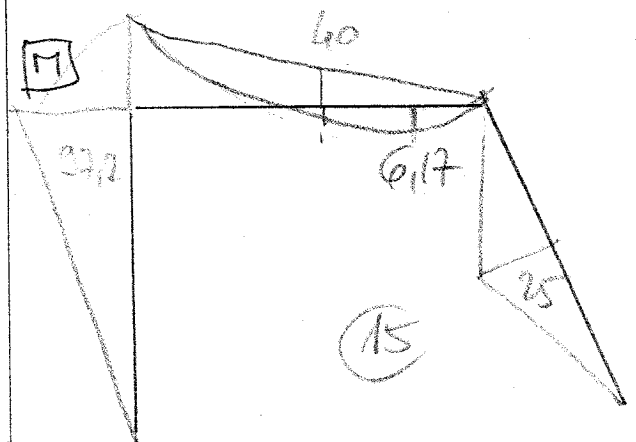
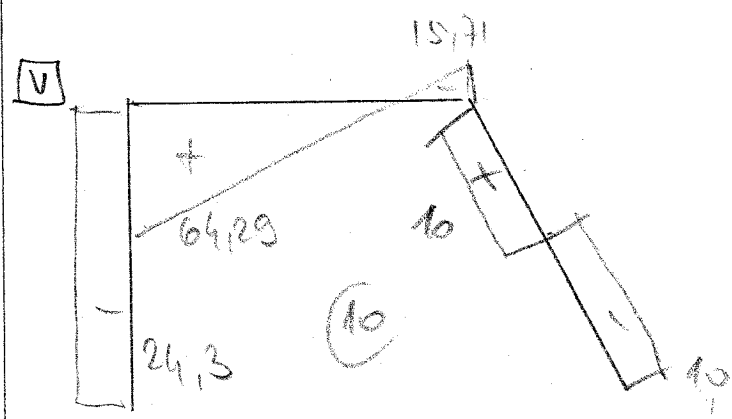
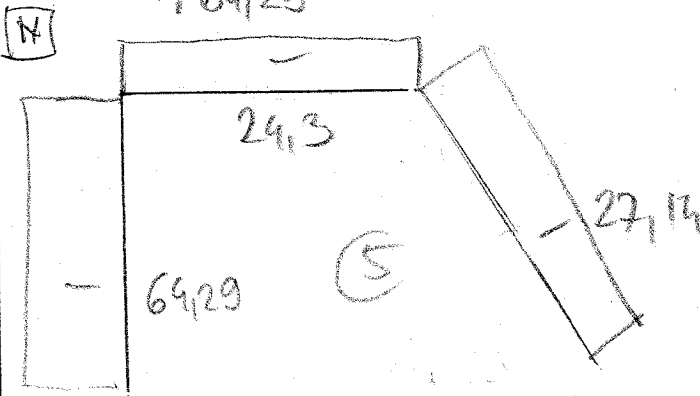
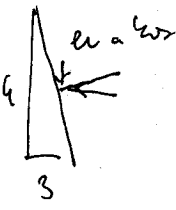
$$\sum V = 0 \quad 12 + 80 - 27,71 \cdot 64,29 = 0 \quad \checkmark$$

$$\sum \Pi_C = 0 \quad (64,29 \cdot 4 - \frac{20 \cdot 4^2}{2}) / 4 =$$

$$= A_H = 24,29$$

$$\sum \Pi_{C'} = 0 \quad (27,71 \cdot 3 - 20 \cdot 2,5) / 4 = B_H$$

$$B_H = 8,29 \quad 8,29 + 16 = 24,29 \quad \checkmark$$



$$V_2 = 16,63 - 6,63 = 10$$

$$M_{\max BC} = \frac{20 \cdot 5}{4} = 25$$

$$M_A = 24,3 \cdot 4 = 97,2$$

$$B = \frac{20 \cdot 4^2}{8} = 40$$

$$M_{\max 2} = \frac{15,71^2}{2 \cdot 20} = 6,17$$

10

40