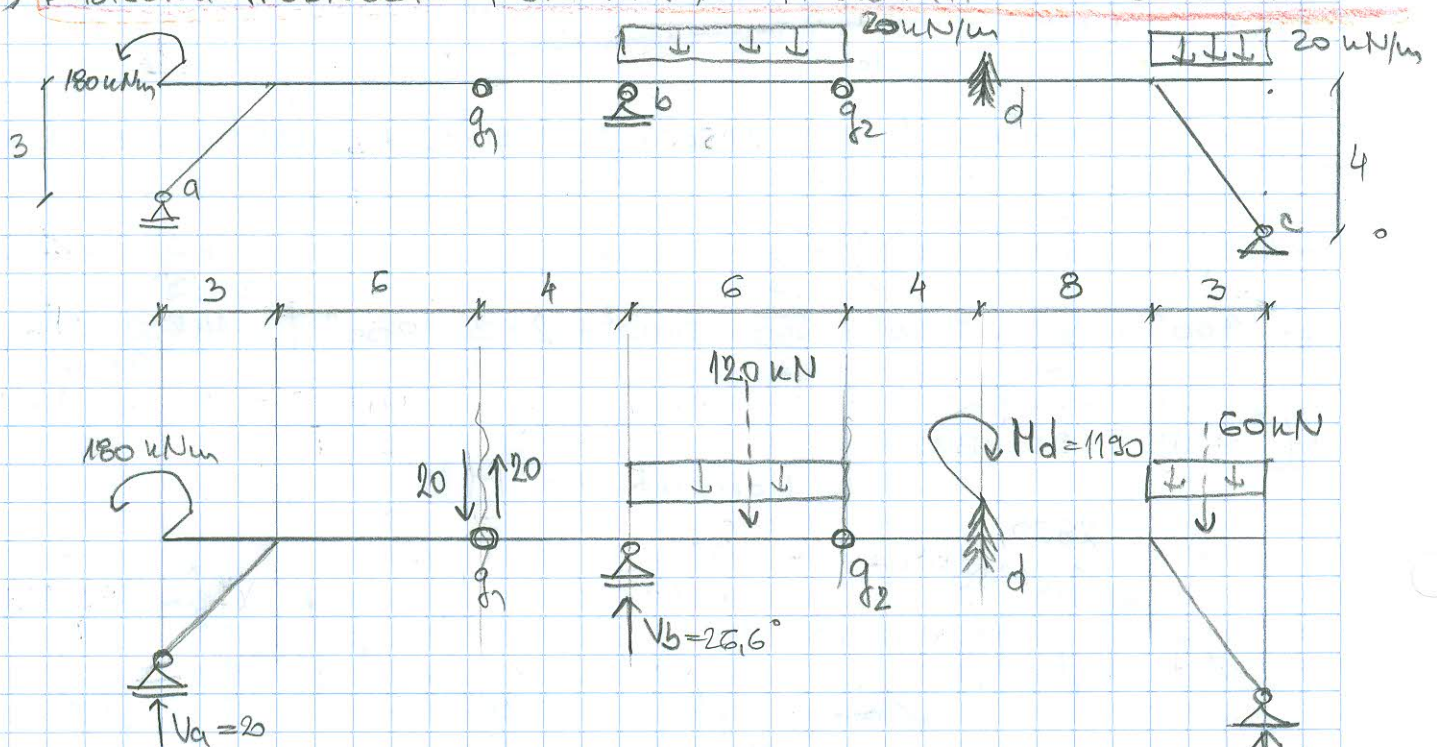


ZADATAK 2.

a) USLED ZADATAKA OPTEREĆENJA ODREDITI VERTIKALNO POMERANJE ŽVORA q_1

b) DOBITIENU VREDNOST POMERANJA PROVERITI UTICAJNOM LINIJOM



$$\sum M_{q_1} = 0 \quad V_a \cdot 9 - 180 = 0$$

$$V_a = 20 \quad V_a + V_{q_1} = 0 \quad V_{q_1} = -V_a$$

$$\sum M_{q_2} = 0 \quad 20 \cdot 10 + V_b \cdot 6 - 120 \cdot 3 = 0$$

$$V_b = 26,6^\circ \text{ kN}$$

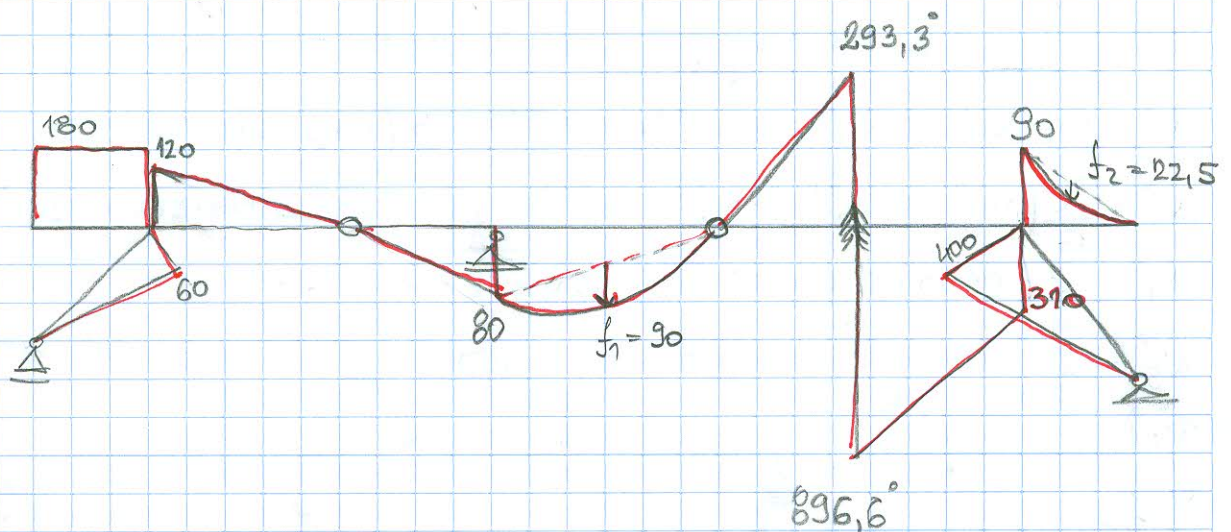
$$\sum V = 0 \quad V_a + V_b - 120 - 60 + V_c = 0$$

$$V_c = 133,3^\circ \text{ kN} \quad \sum H = 0 \quad H_c = 0$$

$$\sum M_{q_2}^d = 0 \quad M_d + 60 \cdot 13,5 - V_c \cdot 15 = 0$$

$$M_d = 1190 \text{ kNm}$$

(M)



$$f_1 = \frac{q l^2}{8} = \frac{20 \cdot 6^2}{8} = 90$$

$$f_2 = \frac{20 \cdot 3^2}{8} = 22,5$$