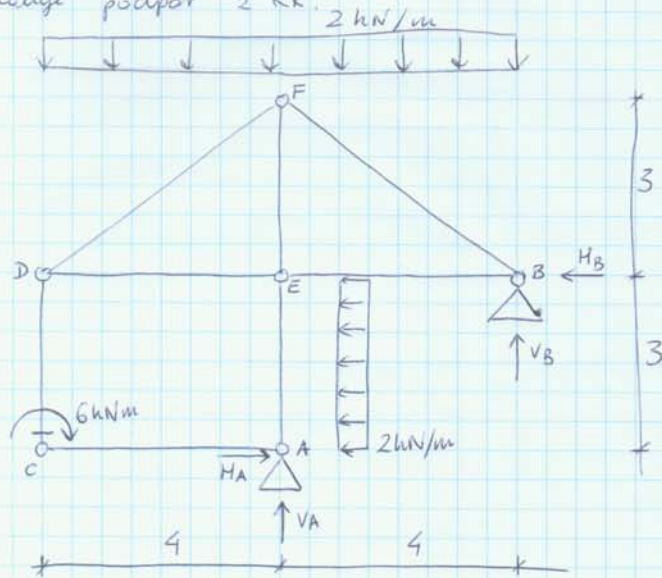
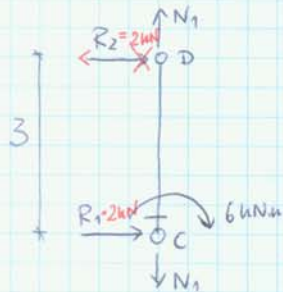


zad 3

Obliczyć reakcje podpór 2 RR.

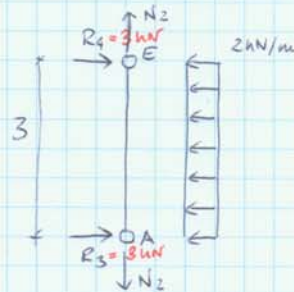


"wycewny" pręt CD i AE

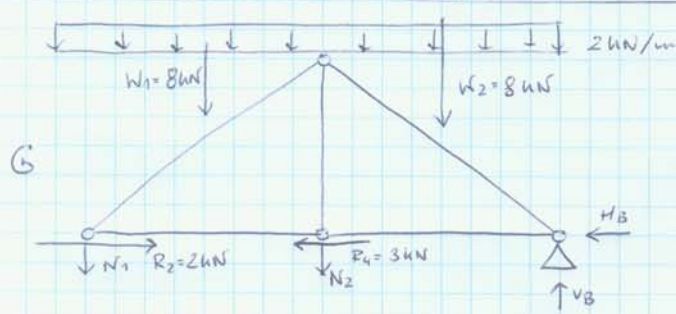


$$\sum M_D = 0 \quad -6 + R_1 \cdot 3 = 0 \Rightarrow R_1 = 2 \text{ kN}$$

$$\sum Y = 0 \quad R_2 = -2 \text{ kN}$$



$$R_3 = R_4 = 3 \text{ kN}$$



zad 3 / 1

Część D

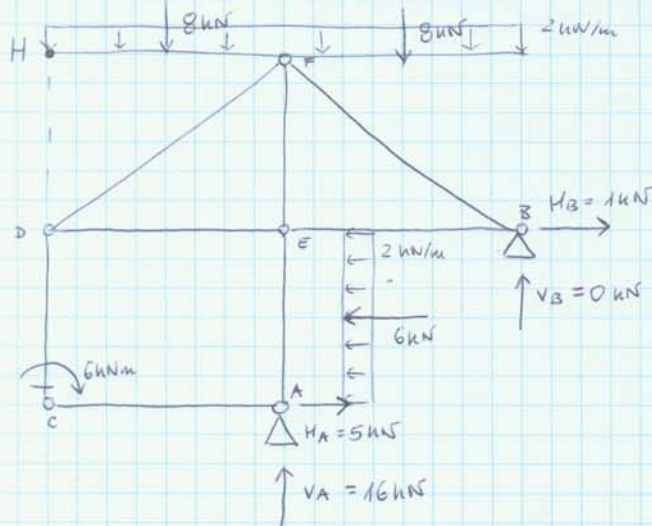
$$\sum X^D = 0$$

$$-2 - 3 + H_A = 0 \Rightarrow H_A = 5 \text{ kN}$$

Część G

$$\sum X^G = 0$$

$$2 - 3 - H_B = 0 \Rightarrow H_B = -1 \text{ kN}$$



$$\sum M_A = 0$$

$$-6 + 8 \cdot 2 - 8 \cdot 2 + 6 \cdot 1,5 - 1 \cdot 3 + V_B \cdot 4 = 0 \Rightarrow V_B = 0 \text{ kN}$$

$$\sum Y = 0$$

$$V_A - 8 - 8 = 0 \Rightarrow V_A = 16 \text{ kN}$$

Spr.  $\sum M_H = 0$

$$-6 - 8 \cdot 2 - 8 \cdot 6 - 6 \cdot 4,5 + 1 \cdot 3 + 16 \cdot 4 + 5 \cdot 6 = \underline{0} \quad \checkmark$$

$$\sum X = 0$$

$$5 + 1 - 6 = \underline{0} \quad \checkmark$$