

wypołączone z obc.
ciągnięto jest!

$$8 \frac{\text{kN}}{\text{m}} \cdot 6 \text{ m}$$

$$\begin{cases} \textcircled{2} \sum X = H_A + H_c - 5 \text{ kN} = 0 \\ \textcircled{4} \sum Y = V_A + V_c - 8 \frac{\text{kN}}{\text{m}} \cdot 6 \text{ m} = 0 \\ \textcircled{1} \sum M_B^L = -8 \text{ kNm} - H_A \cdot 4 \text{ m} = 0 \\ \textcircled{3} \sum M_A = -8 \text{ kNm} + 8 \frac{\text{kN}}{\text{m}} \cdot 6 \text{ m} \cdot \frac{1}{2} \cdot 6 \text{ m} - V_c \cdot 4 \text{ m} + H_c \cdot 2 \text{ m} - 5 \text{ kN} \cdot 4 = 0 \end{cases}$$

$$\textcircled{1} H_A = -2 \text{ kN}$$

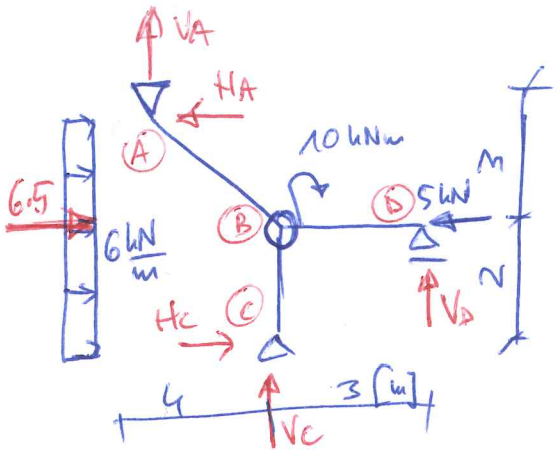
$$\textcircled{2} H_c = 7 \text{ kN}$$

$$\textcircled{3} V_c = 36,25 \text{ kN}$$

$$\textcircled{4} V_A = 11,75 \text{ kN}$$

SPW

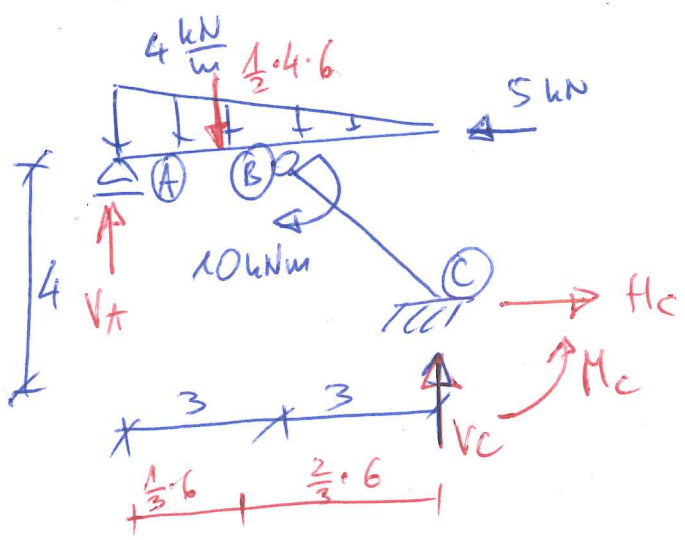
$$\begin{aligned} \sum M_c &= 11,75 \text{ kN} \cdot 4 \text{ m} + 2 \text{ kN} \cdot 2 \text{ m} - 8 - 8 \frac{\text{kN}}{\text{m}} \cdot 6 \text{ m} \cdot 1 \text{ m} + 5 \text{ kN} \cdot 1 \text{ m} = \\ &= 0 \quad \text{O.k.} \end{aligned}$$



Uwege - pruzub
 cygli plus 2 doddelhawe rdduanie
 rdduanwygi:

$$\left\{ \begin{aligned} \sum M_B^{\text{prauo}} &= 10 - 3V_D = 0 \Rightarrow V_D = 3,333 \text{ kN} \\ \sum M_B^{\text{dot}} &= -6 \cdot 2 \cdot \frac{1}{2} \cdot 2 - 2H_C = 0 \Rightarrow H_C = -6 \text{ kN} \\ \sum X &= 6,5 - H_A + H_C - 5 = 0 \Rightarrow H_A = 19 \text{ kN} \\ \sum M_C &= 6,5 \cdot \frac{1}{2} \cdot 5 - 5H_A + 4V_A + 10 - 5 \cdot 2 - 3V_D = 0 \\ &\Rightarrow V_A = 7,5 \text{ kN} \\ \sum Y &= V_A + V_C + V_D = 0 \Rightarrow V_C = -10,833 \text{ kN} \end{aligned} \right.$$

Spr $\sum M_D = 10 + (-10,833 \cdot 3) - (-6) \cdot 2 + 6,5 \cdot 0,5 + 7,5 \cdot 7 - 19 \cdot 3 = 0,004$ 0.k



Uwege - pruzub
 cygli plus 1 rddu. rddu.

$$\left\{ \begin{aligned} \sum X &= -5 + H_C = 0 \Rightarrow H_C = 5 \text{ kN} \\ \sum M_B^{\text{góra}} &= -\frac{1}{2} \cdot 4 \cdot 6 \cdot \left(\frac{2}{3} \cdot 6 - 3\right) + 3V_A = 0 \\ &\Rightarrow V_A = 4 \text{ kN} \\ \sum Y &= V_A + V_C - \frac{1}{2} \cdot 4 \cdot 6 = 0 \Rightarrow V_C = 8 \text{ kN} \end{aligned} \right.$$

$$\sum M_C = -M_C - 5 \cdot 4 - \frac{1}{2} \cdot 4 \cdot 6 \cdot \left(\frac{2}{3} \cdot 6\right) + V_A \cdot 6 - 10 = 0$$

$$\Rightarrow M_C = -34 \text{ kNm}$$

Spr $\sum M_A = \frac{1}{2} \cdot 4 \cdot 6 \cdot \left(\frac{1}{3} \cdot 6\right) + 10 - 8 \cdot 6 - 5 \cdot 4 + 34 = 0$ 0.k