

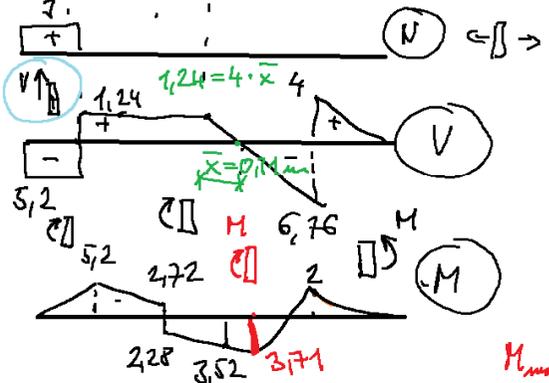
$$\sum M_a = 0 \quad 5,2 \cdot 1 - 5 - 12 \cdot 4,5 + R_B \cdot 5 = 0$$

$$R_B = 10,76 \text{ kN}$$

$$\sum M_b = 0 \quad 5,2 \cdot 6 - R_a \cdot 5 - 5 + 12 \cdot 0,5 = 0$$

$$R_a = 6,44$$

$$\sum F_y = 0 \quad -5,2 + 6,44 - 12 + 10,76 = 0 \quad \checkmark$$



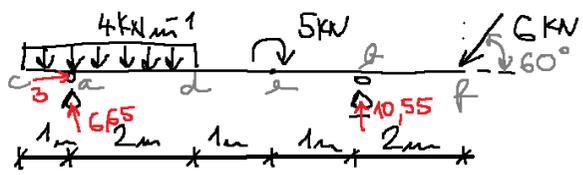
$$L M_d = -5,2 \cdot 8 + 6,44 \cdot 2 = -2,72$$

$$R M_d = L M_d + 5 = 2,28$$

$$L M_e = -5,2 \cdot 4 + 6,44 \cdot 3 + 5 = 3,52$$

$$R M_B = -4 \cdot 1 \cdot 0,5 = -2$$

$$M_{max} = -5,2 \cdot 4,31 + 6,44 \cdot 3,71 + 5 - 4 \cdot 0,31 \cdot \frac{0,31}{2} = 3,71 \text{ kNm}$$



$$R_a = 6,65 \text{ kN} \quad H_a = 3 \text{ kN}$$

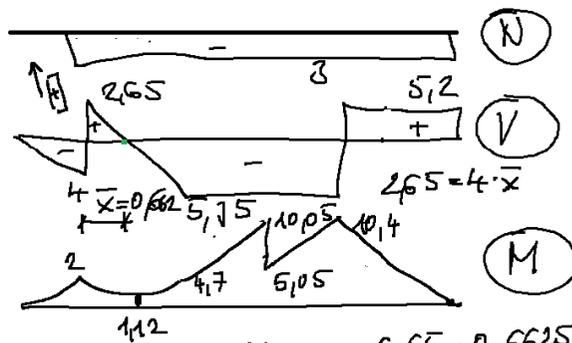
$$R_B = 10,55 \text{ kN}$$

$$R M_e = -5,2 \cdot 3 + 10,55 \cdot 1 = -5,05 \text{ kNm}$$

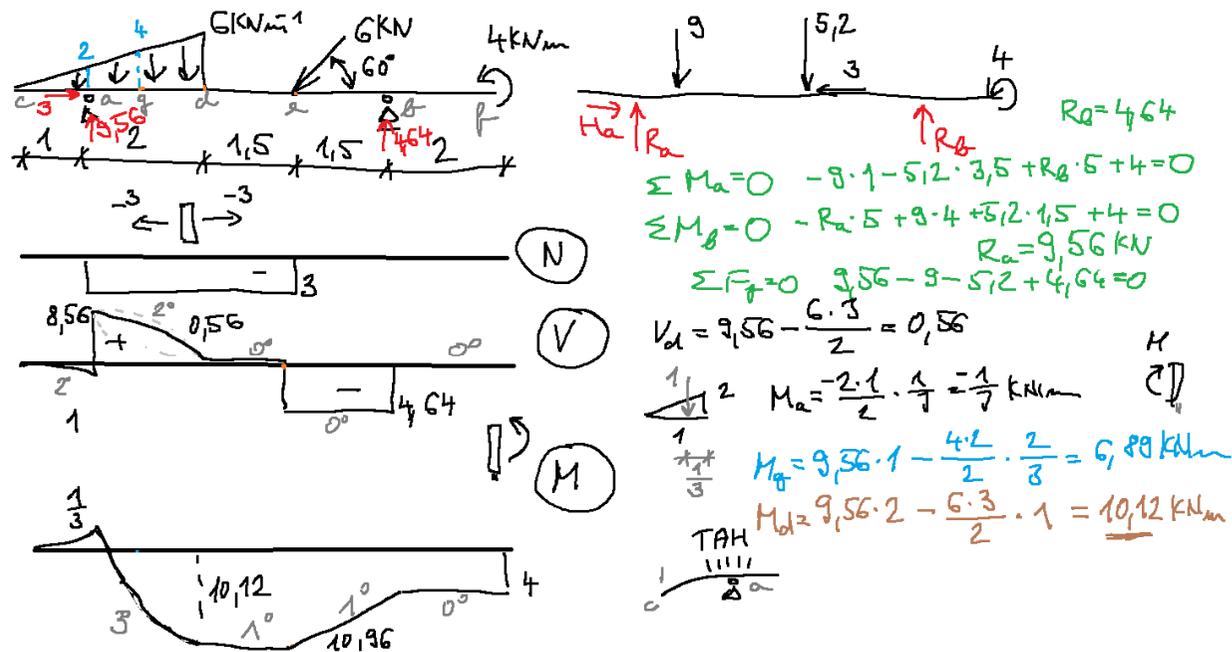
$$B M_B = -5,2 \cdot 2 = -10,4 \text{ kNm}$$

$$L M_d = -4 \cdot 3 \cdot 1,5 + 6,65 \cdot 2 = -4,7 \text{ kNm}$$

$$L M_e = -10,05 \text{ kNm}$$



$$M_{max} = 6,65 \cdot 0,6625 - 4 \cdot 1,6625 \cdot \frac{1,6625}{2} = 1,12 \text{ kNm}$$



DŮ vložit do Teams spolu s třemi příklady z 9.3., termín 13.3.

