

$$H_1 = H_2 = -14,2105 \text{ kN}$$

$$H_3 = H_4 = 11,0526 \text{ kN}$$

$$(I) \quad \sum V = 0 \quad V_A - 60 - V_e + V_B = 0 \Rightarrow V_B = V_e + 60 - V_A = 86,7669 \text{ kN}$$

$$\sum H = 0 \quad H_A - H_e + H_B = 0 \quad H_B = -H_A = 3,1579 \text{ kN}$$

$$(II) \quad \sum M_g^d = 0 \quad 40 + S \cdot 6 - V_D \cdot 4 = 0 \quad S = \frac{V_D \cdot 4 - 40}{6} = -4,24 \text{ kN}$$

$$V_1 = V_1' + H_1 \cdot t_g \text{ c} = 22,5 - 14,2105 \cdot \frac{2}{8} = 18,9474 \text{ kN}$$

$$V_2 = V_2' - H_2 \cdot t_g \text{ c} = 37,5 + 14,2105 \cdot \frac{2}{8} = 41,0526 \text{ kN}$$

