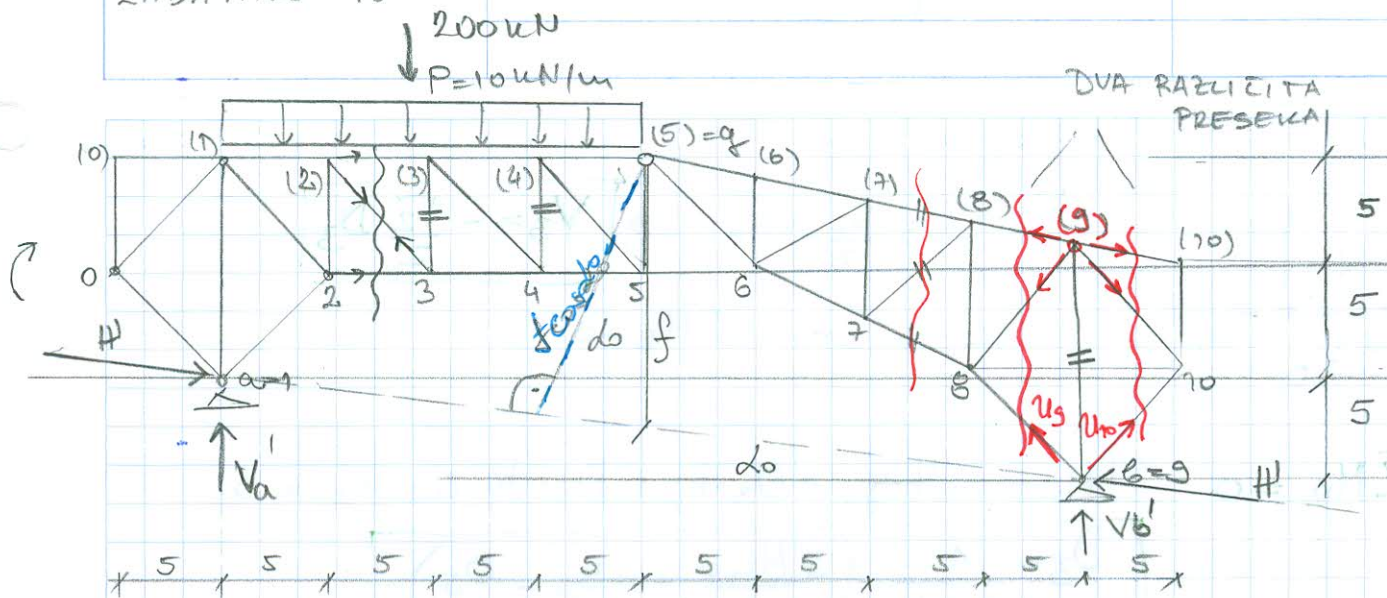
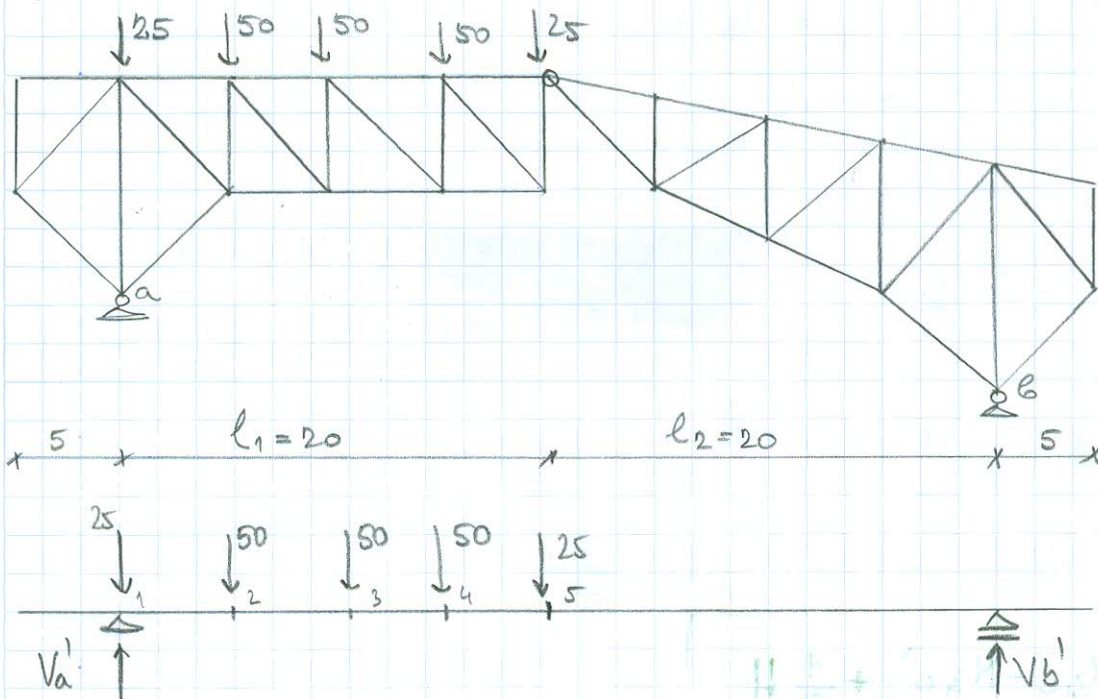


ZADATAK 4.



- ODREDITI SILE U PRESECIMA
- KONSTRUISATI U.L. ZA NORMALNE SILE U STAPOVIMA
- PROVERITI REZULTATE POMOCU U.L.



1) Prvo izračunam d_0, f, V_a, V_b, H

$$\tan d_0 = \frac{5}{40} = \frac{1}{8}$$

$$f = 10 + (5 - 20 \cdot \tan d_0) = 10 + (5 - 20 \cdot \frac{1}{8}) = 12.5 \text{ m}$$

$$\sum M_a, \sum V, \sum M_g^d \Rightarrow V_b, H$$

$$M_g = M_{g,10} + H \cdot f$$

$$\sum M_a = 0 \quad 200 \cdot 10 - 40 V_b = 0 \Rightarrow V_b = 50 \text{ kN}$$

$$\sum V = 0 \quad V_a + V_b - 200 = 0 \Rightarrow V_a = 150 \text{ kN}$$

$$\sum M_g^d = 0 \quad V_b \cdot 20 - H \cdot f \cdot \cos d_0 = 0 \quad H \cdot \cos d_0 = H$$

$$V_b \cdot 20 - H \cdot f = 0$$

$$H = \frac{50 \cdot 20}{f} = \frac{50 \cdot 20}{12.5} = 80$$

davan sa odgovarajuće greške