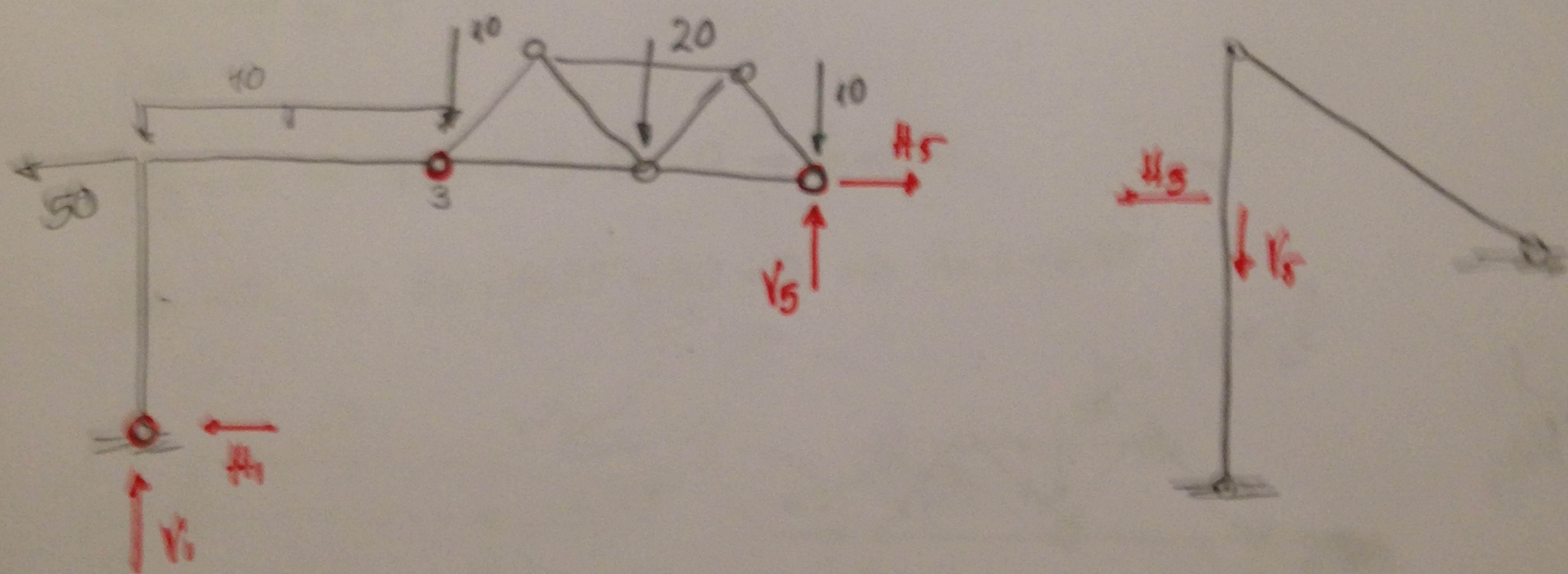
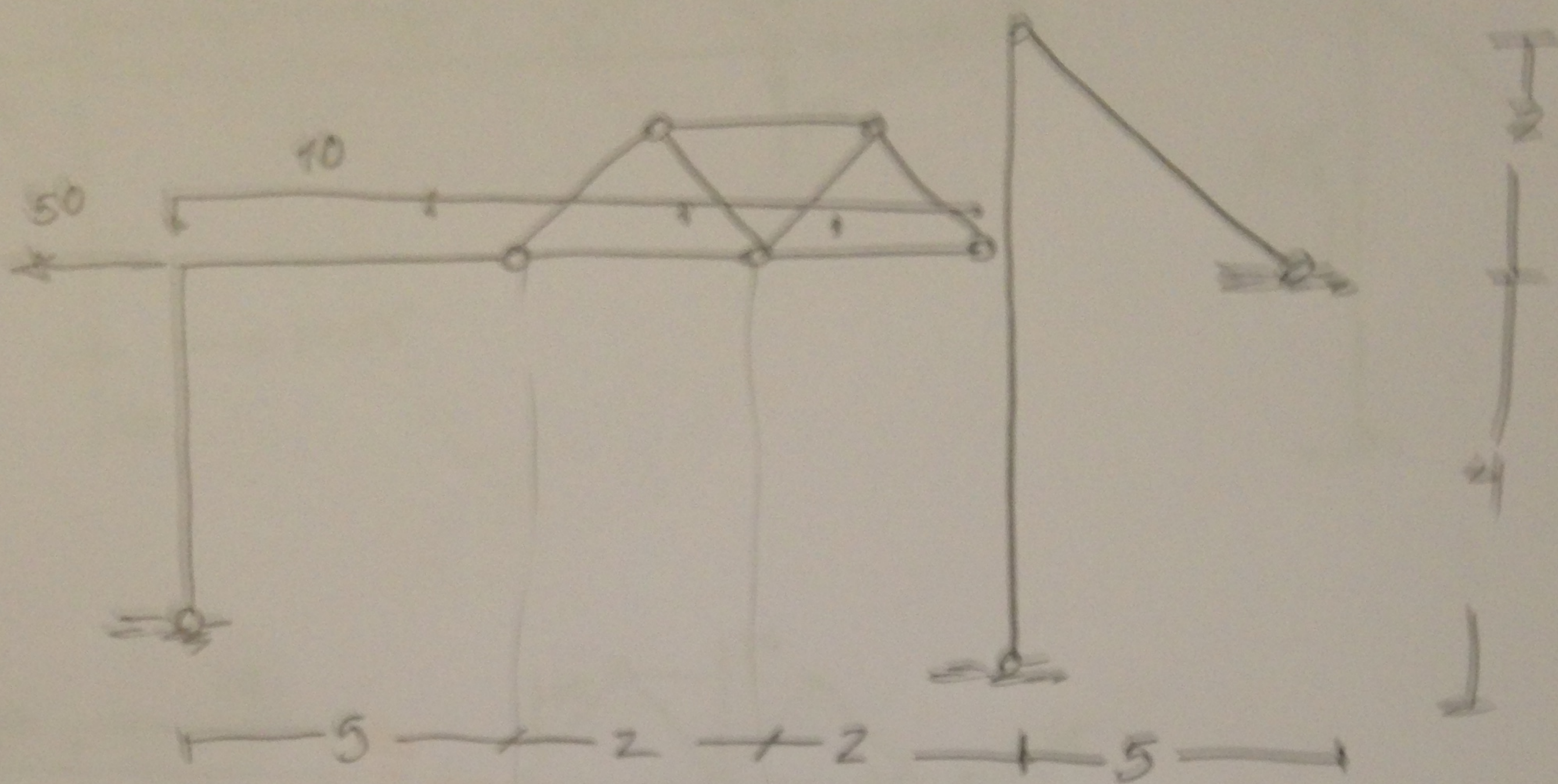


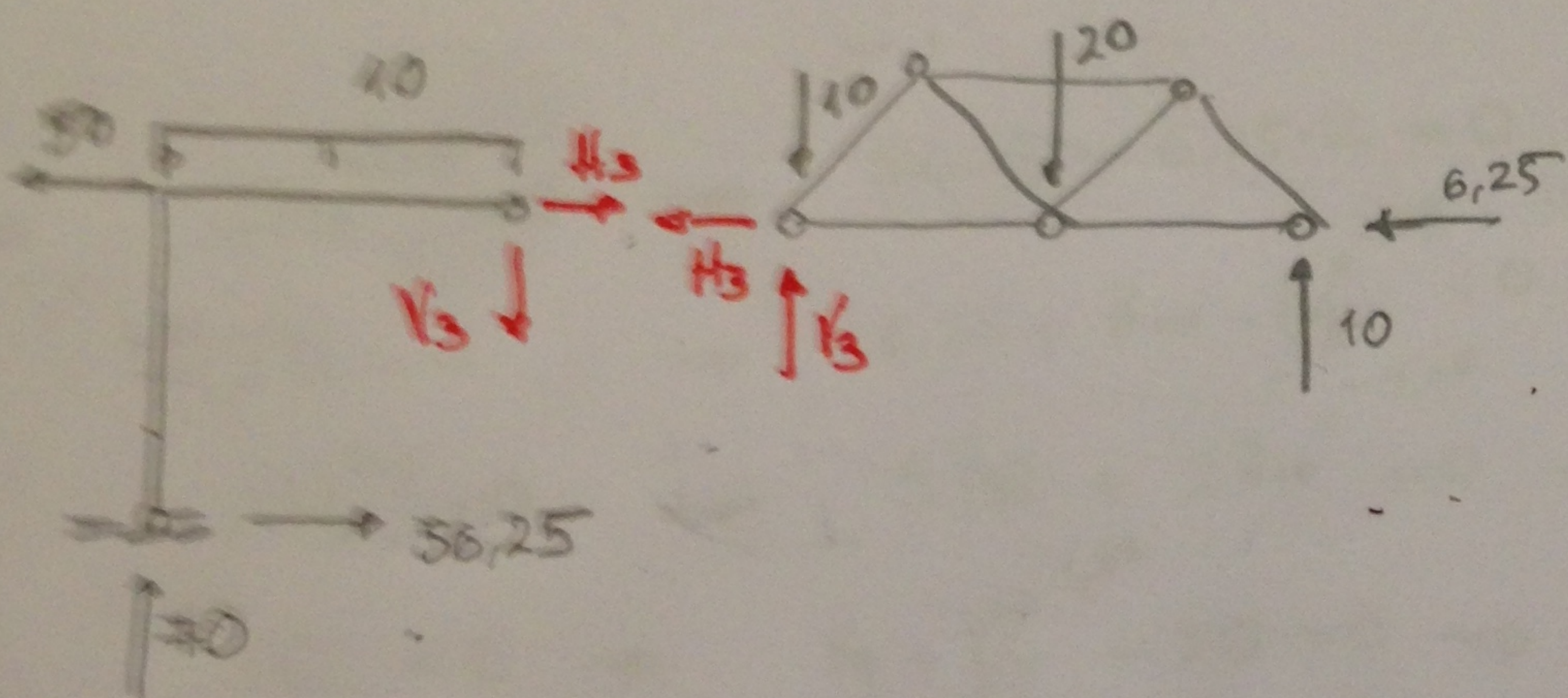
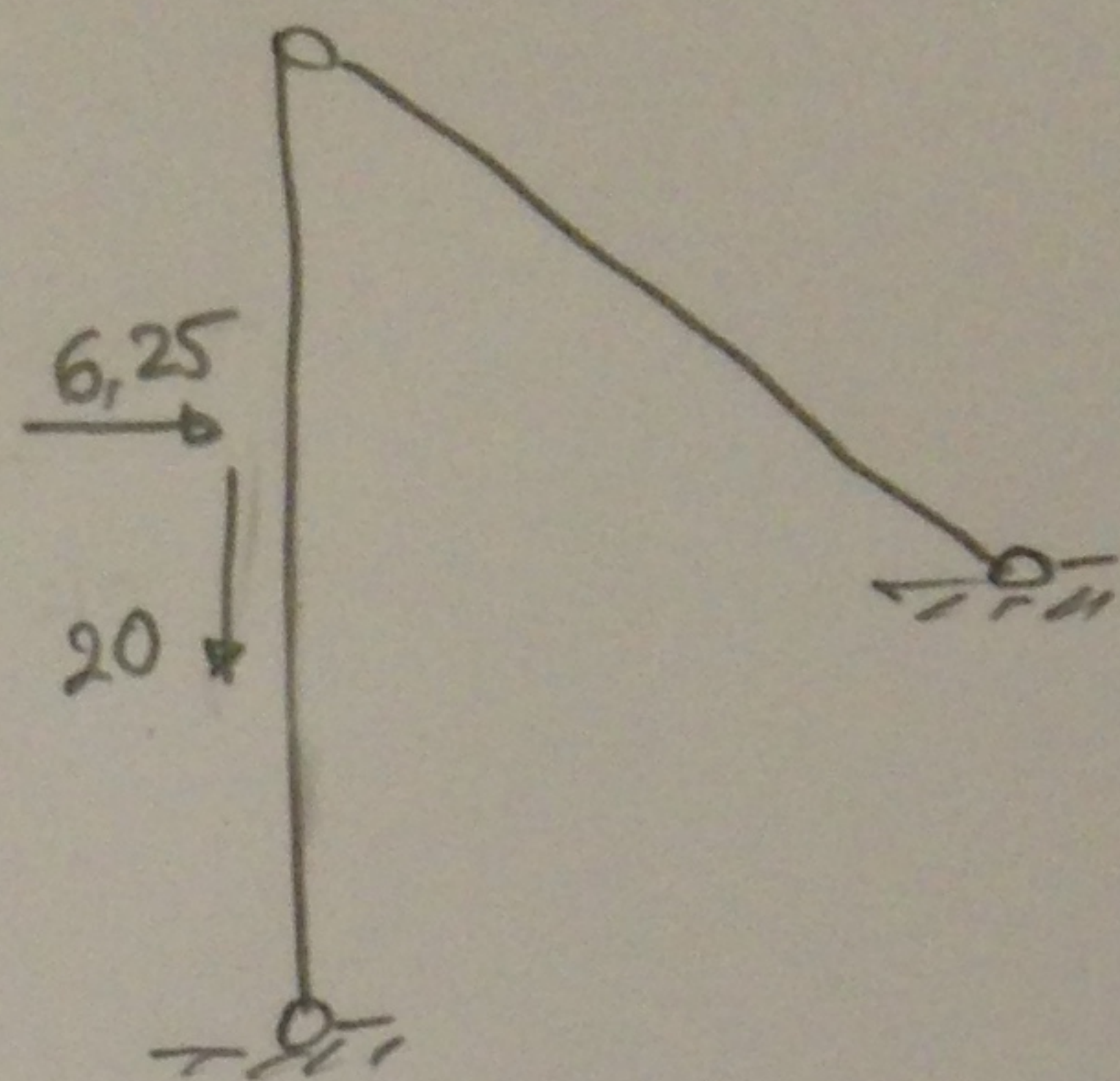
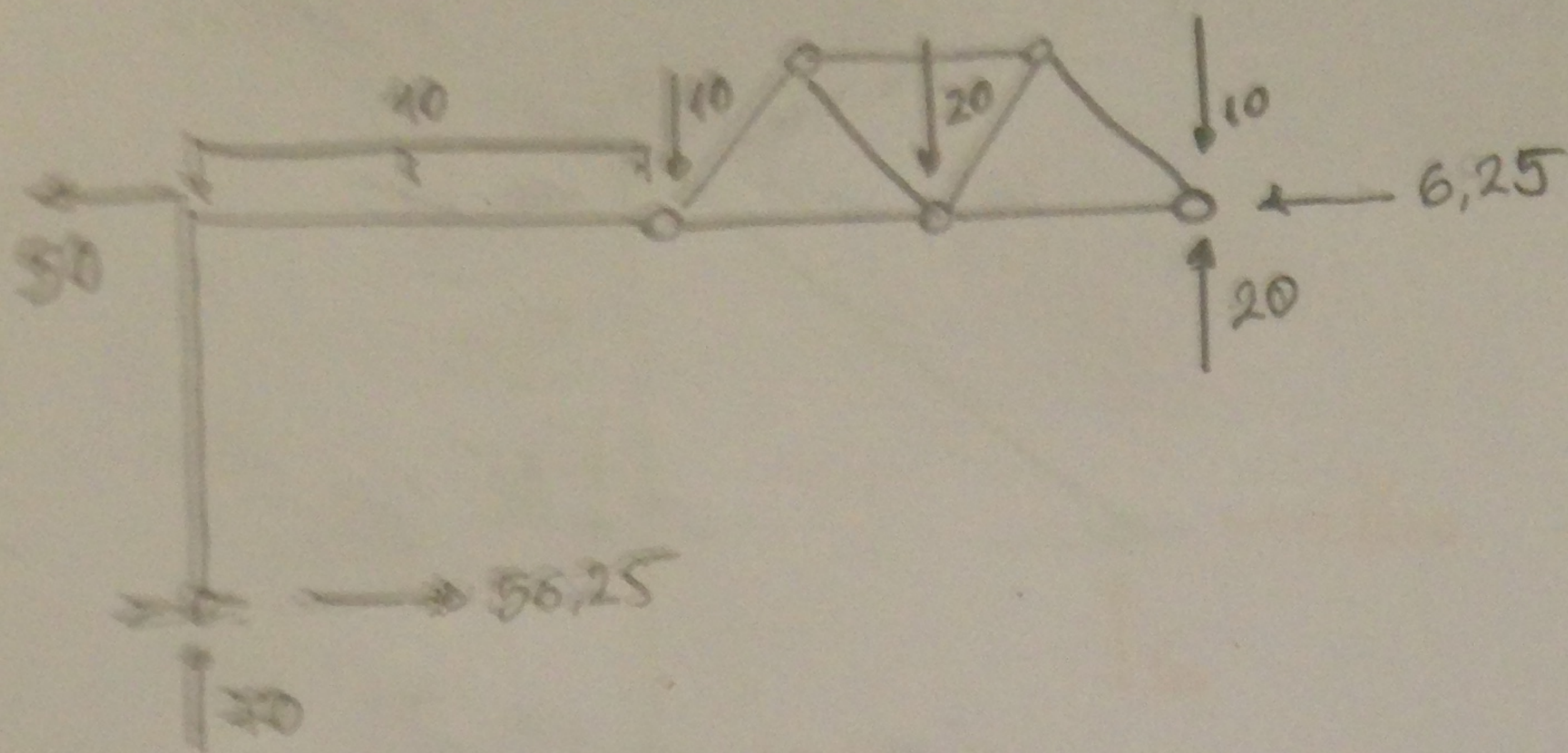


$$\sum M_3 = 0 \Rightarrow V_5 \cdot 4 - 10 \cdot 4 - 20 \cdot 2 = 0 \Rightarrow V_5 = 20 \text{ N}$$

$$\sum F_y = 0 \Rightarrow V_1 + V_5 - 10 - 20 - 10 - 10 \cdot 5 = 0 \Rightarrow V_1 = 70$$

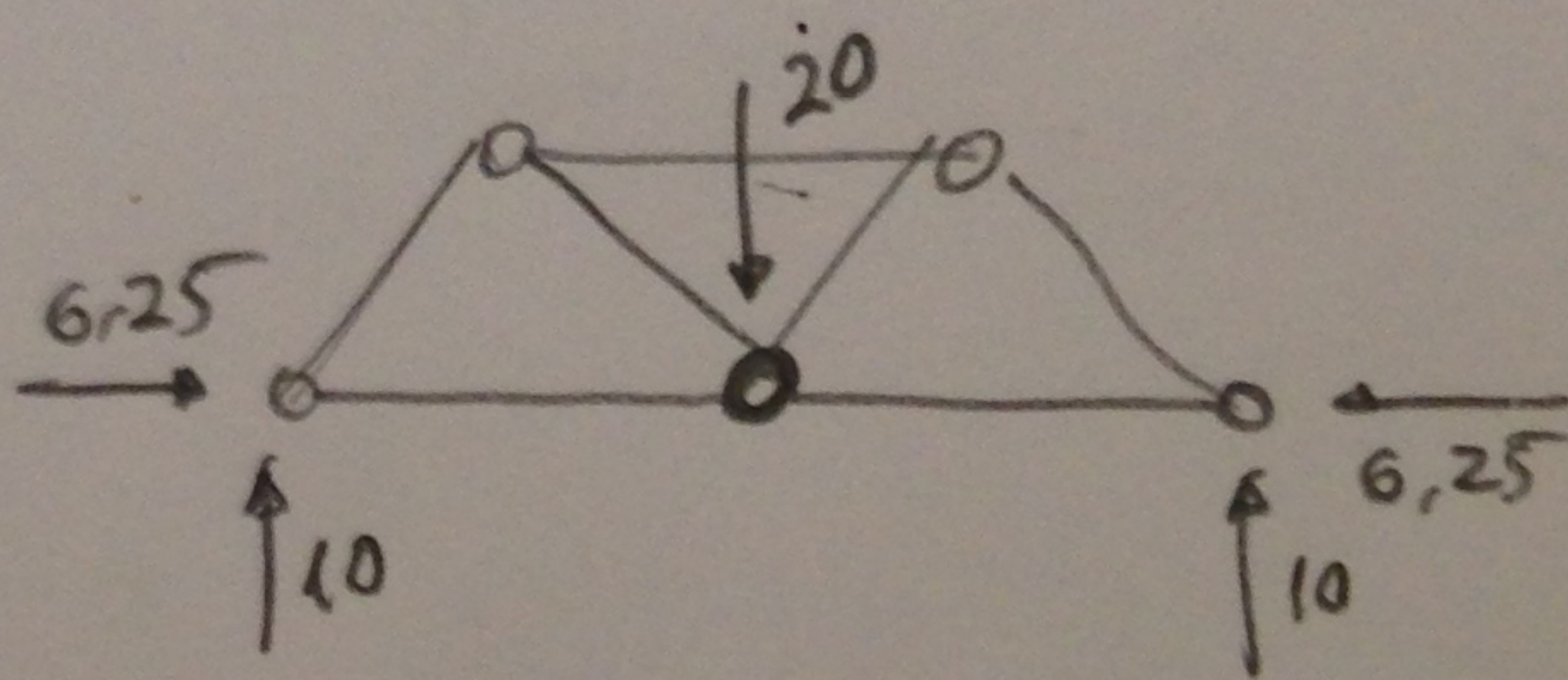
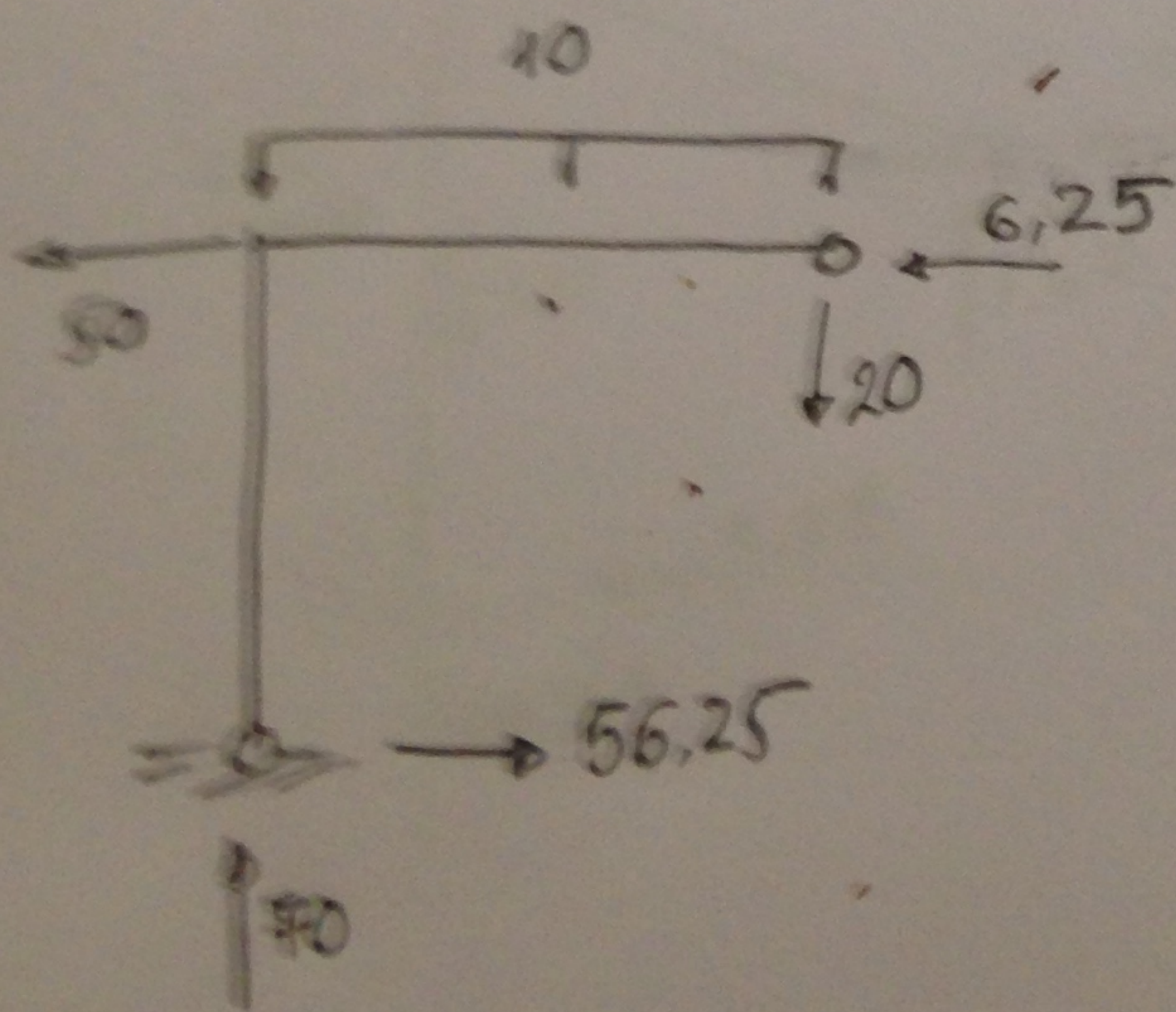
$$\sum M_1 = 0 \Rightarrow 10 \cdot \frac{9^2}{2} - V_5 \cdot 9 - 50 \cdot 4 + H_5 \cdot 4 = 0 \Rightarrow H_5 = 8.25$$

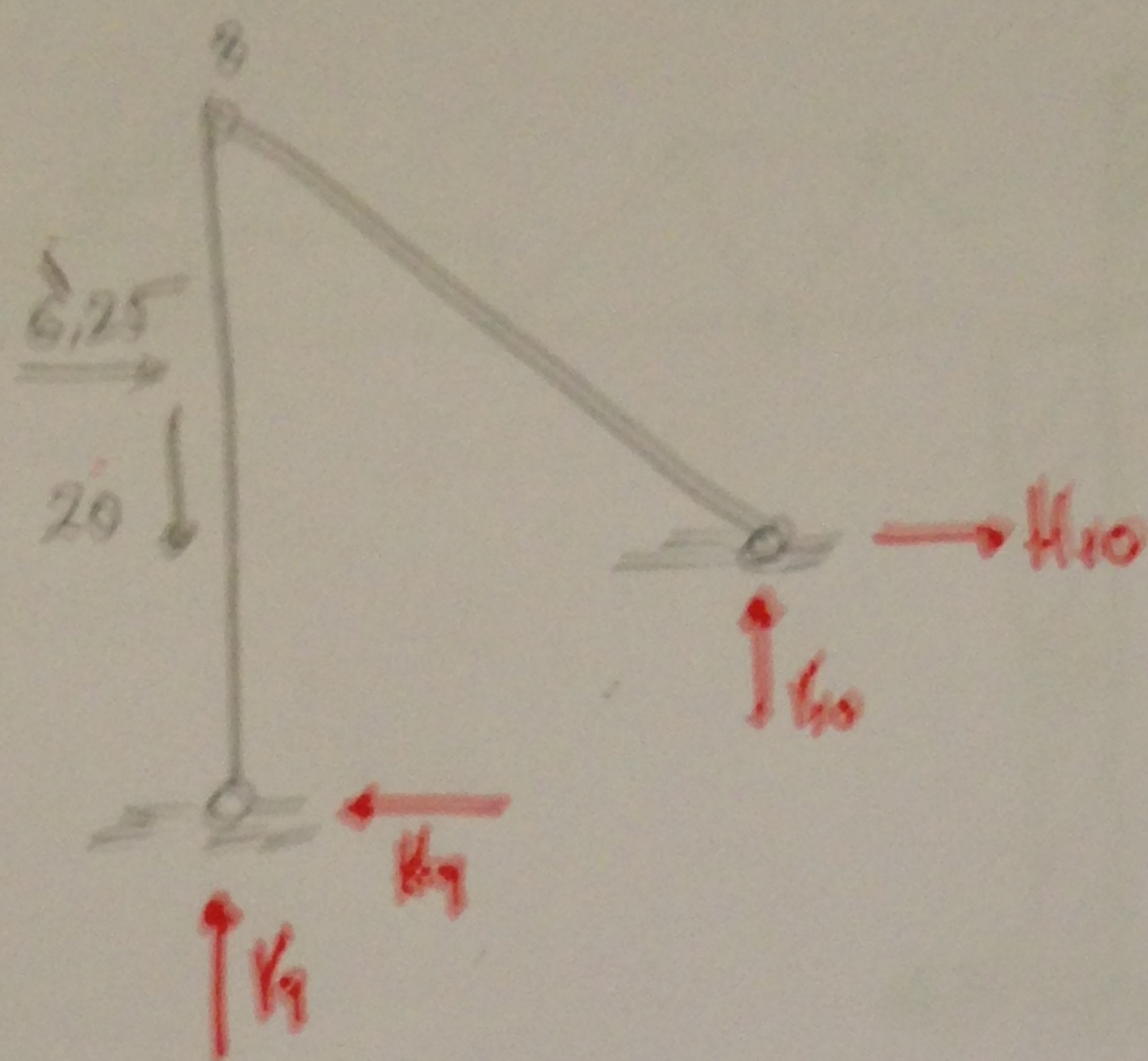
$$\sum F_x = 0 \Rightarrow H_1 + 50 - H_5 = 0 \Rightarrow H_1 = -56.25$$



$$\sum F_y = 0 \Rightarrow 70 - 10 - 5 - V_3 = 0 \Rightarrow V_3 = 20$$

$$\sum F_x = 0 \Rightarrow H_3 + 56,25 - 50 = 0 \Rightarrow H_3 = -6,25$$





$$\sum M_9^{\text{varu}} = 0 \Rightarrow H_9 \cdot 6 - 6,25 \cdot 2 = 0 \Rightarrow H_9 = 2,08$$

$$\sum F_x = 0 \Rightarrow 6,25 + H_{10} - \overset{2,08}{H_9} = 0 \Rightarrow H_{10} = -4,17$$

$$\sum M_8^{\text{des}} = 0 \Rightarrow 5V_{10} + 2H_{10} = 0 \Rightarrow V_{10} = 1,67$$

$$\sum F_y = 0 \Rightarrow V_9 + \overset{1,67}{V_{10}} - 20 = 0 \Rightarrow V_9 = 18,33$$

