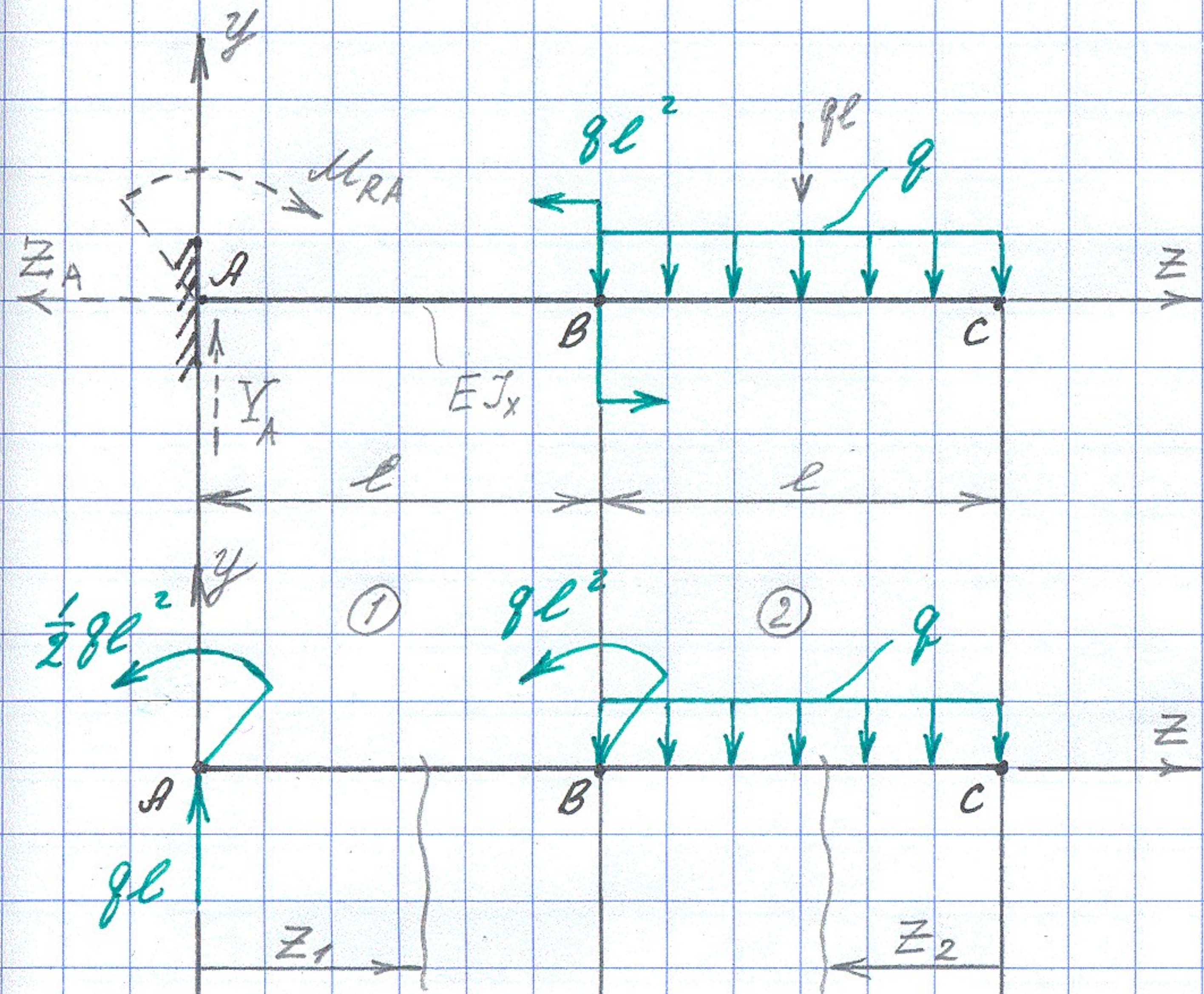


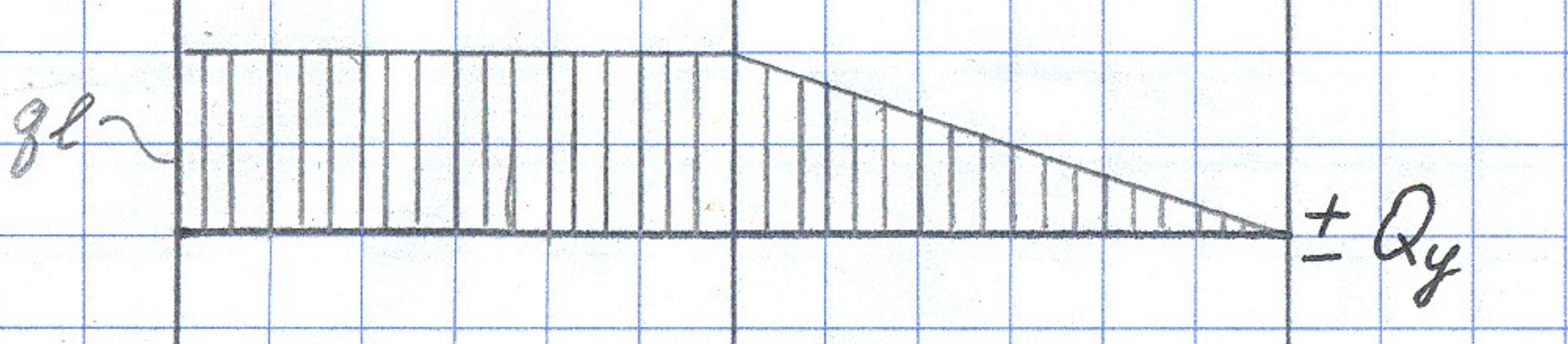
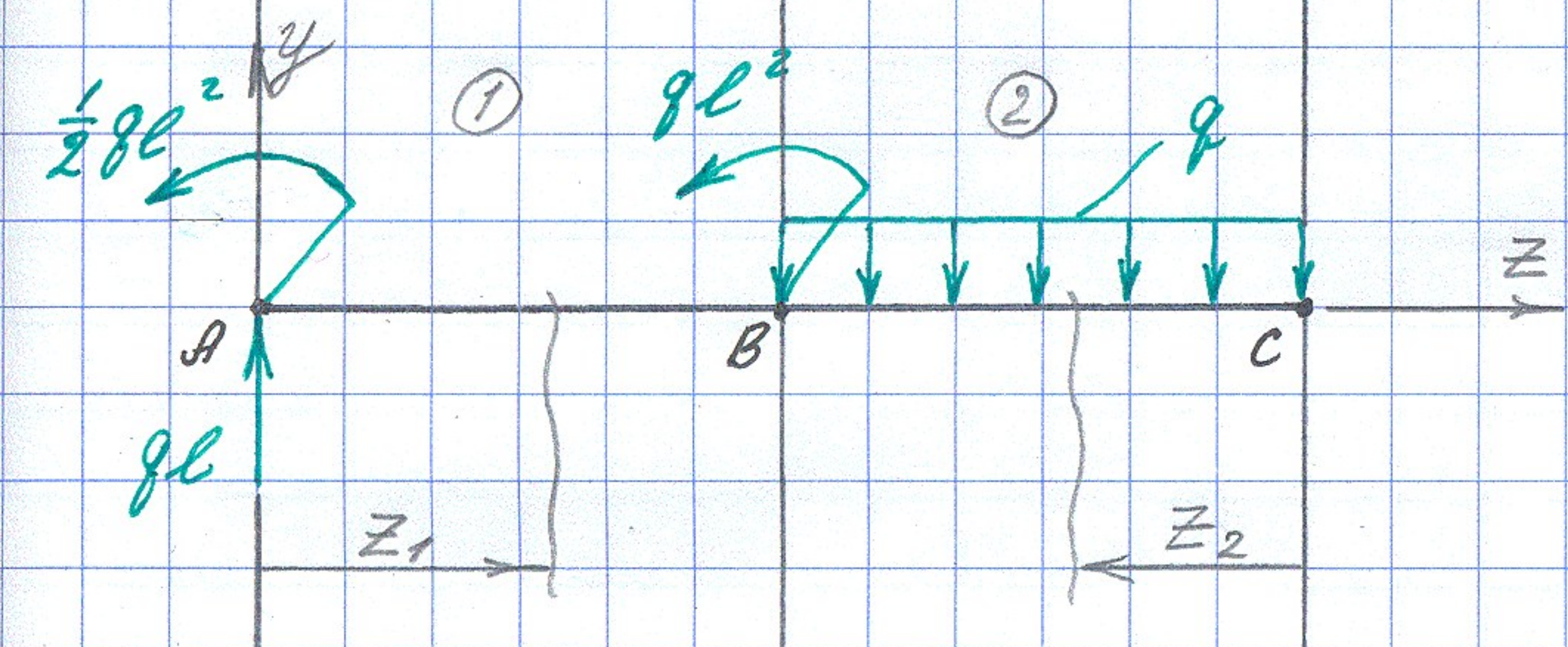
$$V_c = ?$$



$$\sum F_z = 0 = -Z_A \Rightarrow Z_A = 0$$

$$\sum F_y = 0 = Y_A - q \cdot l \Rightarrow Y_A = ql$$

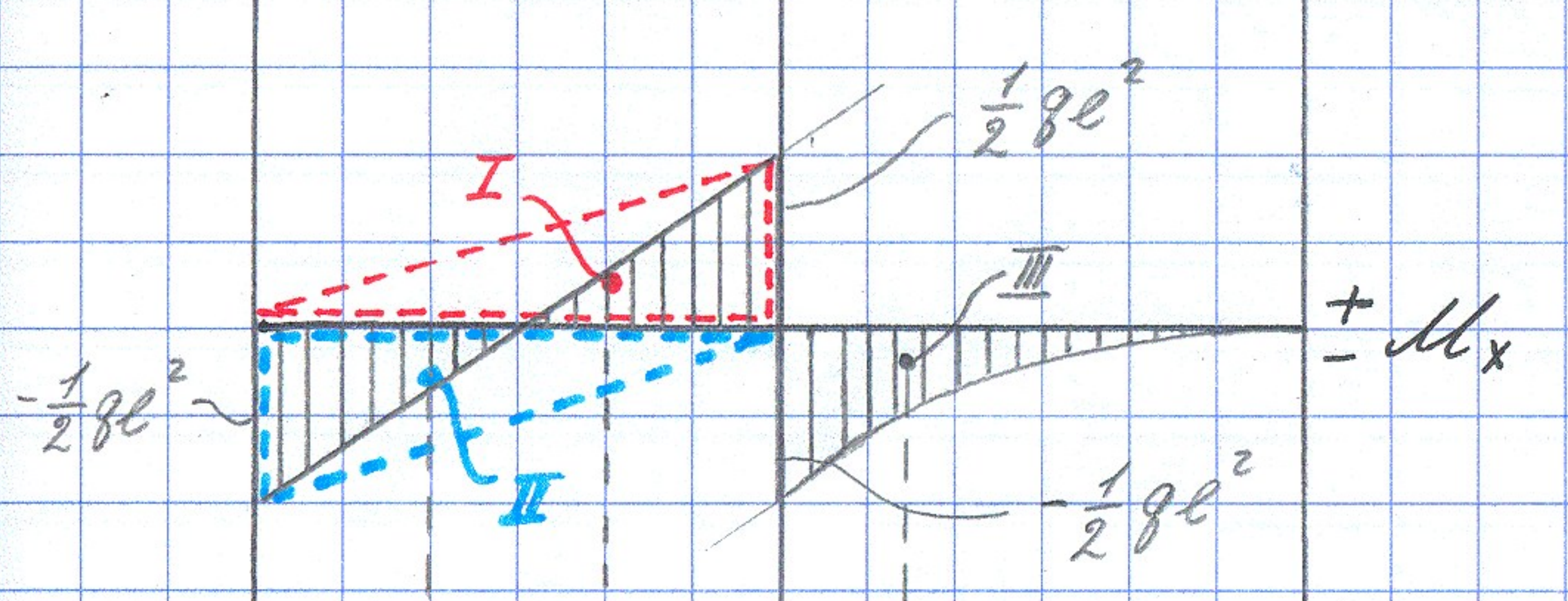
$$\sum M_A = 0 = -M_{RA} + ql^2 - ql \cdot \frac{3}{2}l \Rightarrow M_{RA} = -\frac{ql^2}{2}$$



$$Q_{y1} = ql$$

$$Q_{y2} = q \cdot z_2$$

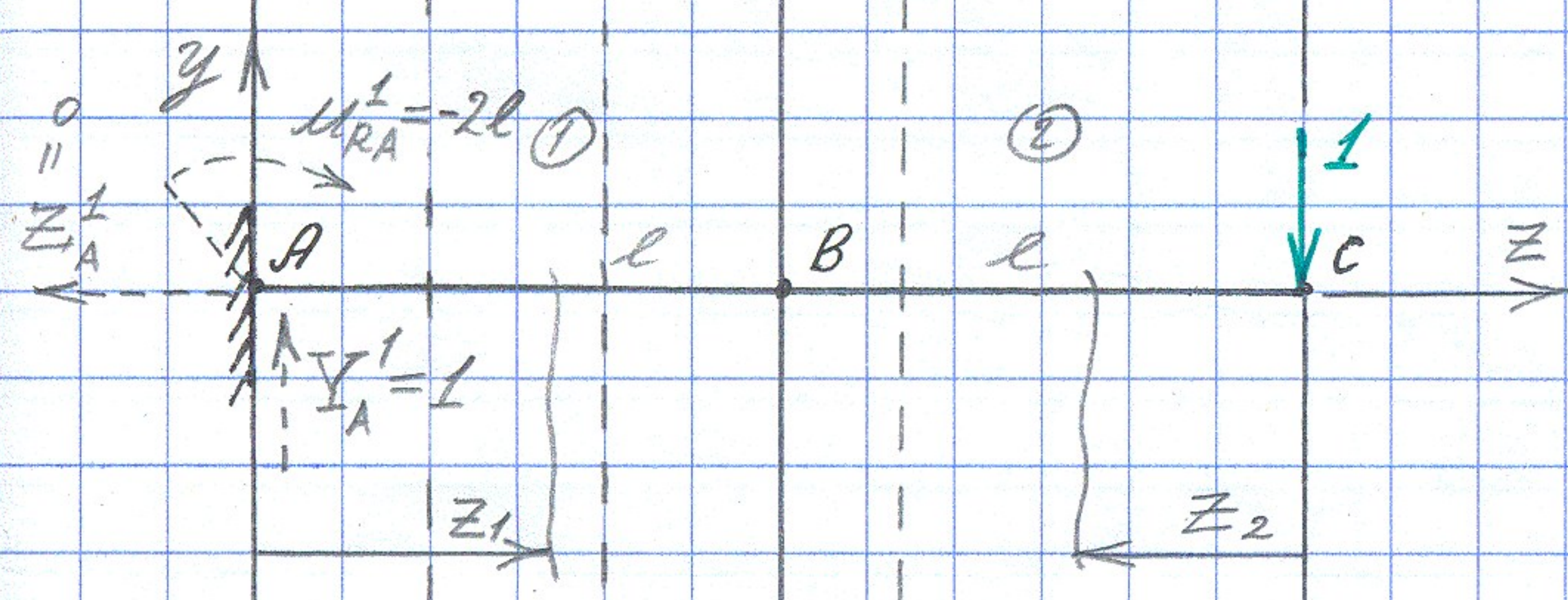
PO34



$$M_{x1} = \frac{q}{2} (2lz_1 - l^2)$$

$$M_{x2} = -\frac{qz_2^2}{2}$$

napadajca



$$\sum F_z = 0 = -Z_A' \Rightarrow Z_A' = 0$$

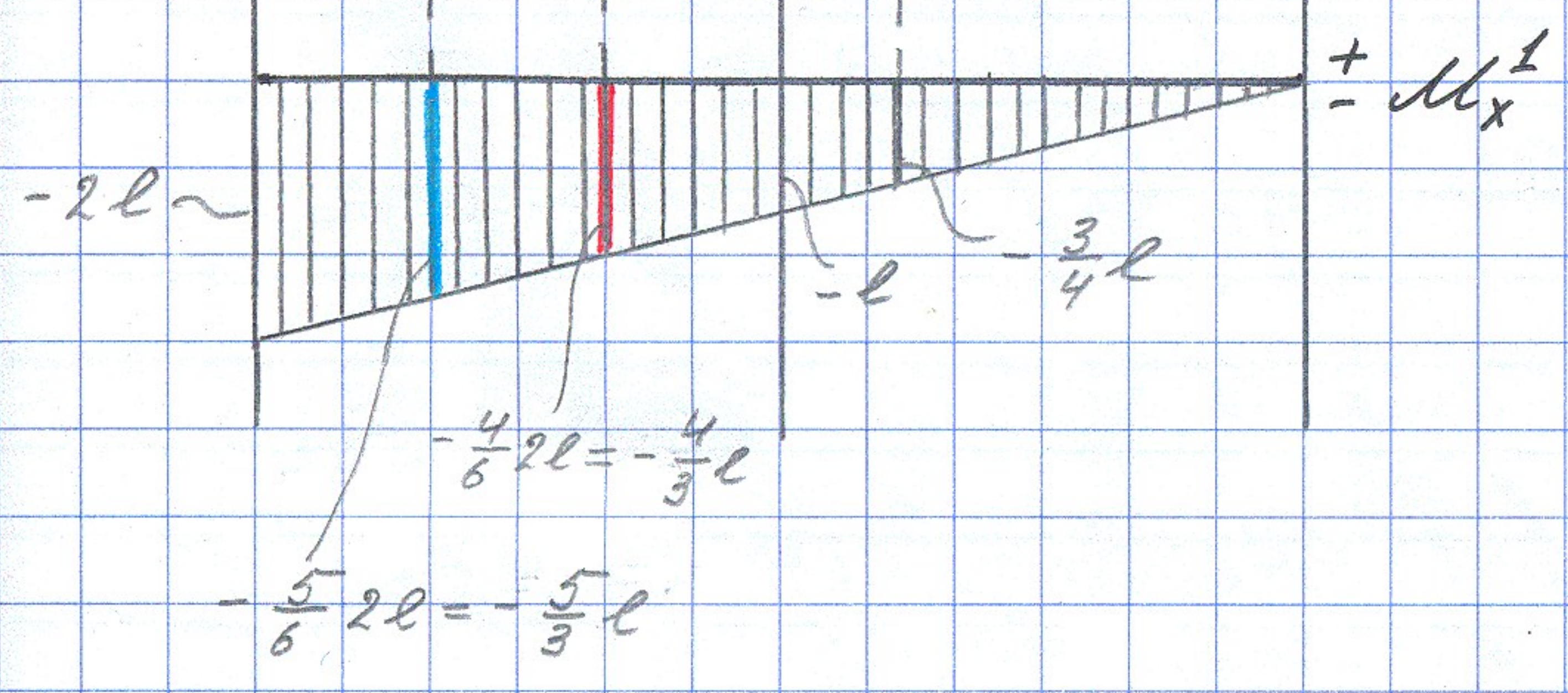
$$\sum F_y = 0 = Y_A' - 1 \Rightarrow Y_A' = 1$$

$$\sum M_A = 0 = -M_{RA}' - 1 \cdot 2l \Rightarrow M_{RA}' = -2l$$

$$M_{x1}' = -1 \cdot l = -l$$

$$M_{x2}' = z_2 - 2l$$

PO34



$$V_c = \frac{M_x \cdot M_x'}{EJ_x} = \frac{1}{EJ_x} \left[\left(\frac{1}{2}l \cdot \frac{1}{2}ql^2 \right) \left(-\frac{4}{3}l \right) + \left(-\frac{1}{2}l \cdot \frac{1}{2}ql^2 \right) \left(-\frac{5}{3}l \right) + \left(-\frac{1}{3}l \cdot \frac{1}{2}ql^2 \right) \left(-\frac{3}{4}l \right) \right] =$$

$$= \frac{ql^4}{4EJ_x} \left[-\frac{4}{3} + \frac{5}{3} + \frac{1}{2} \right] = \frac{5}{24} \frac{ql^4}{EJ_x}$$