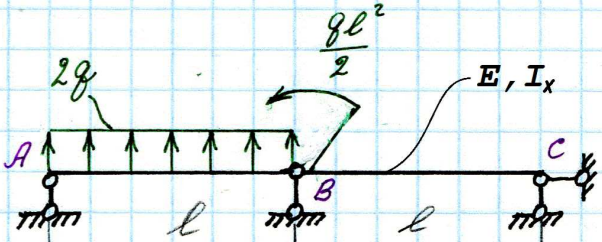
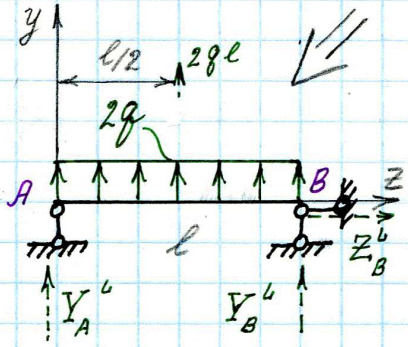
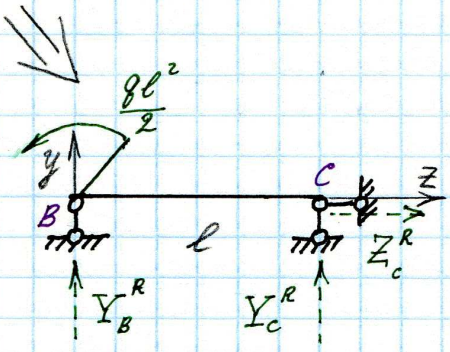






$$\sum F_z = 0 = Z_B^L$$

$$\sum M_A = 2q\ell \cdot \frac{\ell}{2} + Y_B^L \cdot \ell = 0$$

$$Y_B^L = q\ell$$

$$\sum M_B = 2q\ell \frac{\ell}{2} - Y_A^L \cdot \ell = 0$$

$$Y_A^L = q\ell$$

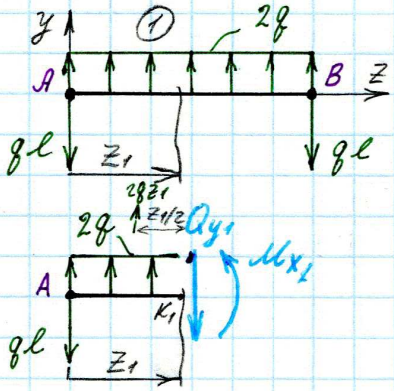
$$\sum F_z = 0 = Z_C^R$$

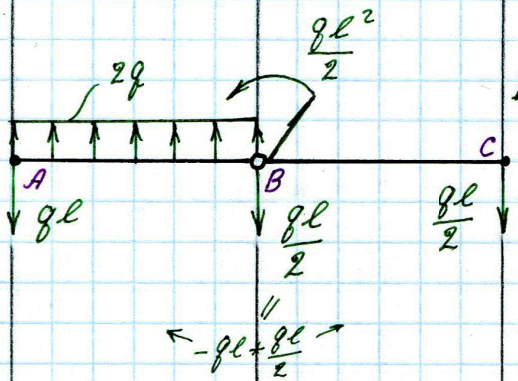
$$\sum M_B = 0 = \frac{q\ell^2}{2} + Y_C^R \cdot \ell$$

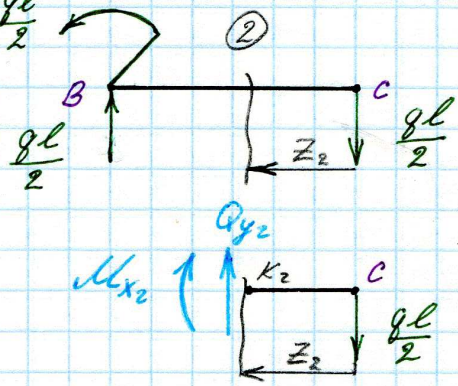
$$Y_C^R = \frac{1}{2} q\ell$$

$$\sum M_C = 0 = \frac{1}{2} q\ell^2 - Y_B^R \cdot \ell$$

$$Y_B^R = \frac{1}{2} q\ell$$







$$\sum F_{y_1} = 0 = 2qz_1 - q\ell - Q_{y_1}$$

$$Q_{y_1} = q(2z_1 - \ell)$$

$$\sum M_{x_1} = -2qz_1 \frac{z_1}{2} + q\ell z_1 + M_{x_1}$$

$$M_{x_1} = qz_1 \cdot (z_1 - \ell)$$

$$\sum F_{y_1} = 0 = Q_{y_2} - \frac{1}{2} q\ell$$

$$Q_{y_2} = \frac{1}{2} q\ell$$

$$\sum M_{x_2} = 0 = -M_{x_2} - \frac{1}{2} q\ell \cdot z_2$$

$$M_{x_2} = -\frac{1}{2} q\ell z_2$$