

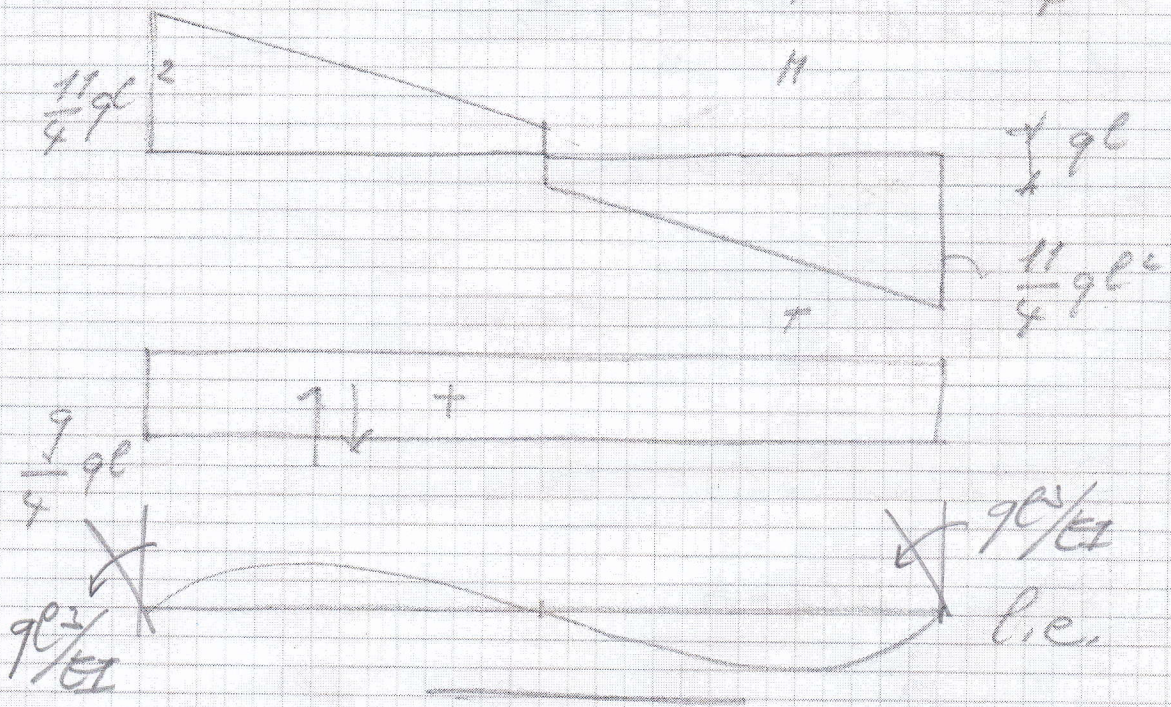
②

$$v(z) = -\frac{9ql}{24EI} z^3 + \frac{11ql^2}{8EI} z^2 - \frac{ql^3}{EI} z$$

$$q(z) = \frac{9ql}{8EI} z^2 - \frac{11ql^2}{4EI} z + \frac{ql^3}{EI}$$

$$T(z) = -EI C_1 = \frac{9}{4} ql$$

$$M(z) = -EI (C_1 z + C_2) = \frac{9}{4} ql z - \frac{11}{4} ql^2$$



$$v(l) = \frac{9ql^2}{2} \cdot \frac{l}{4} + \frac{11ql^2}{3EI} \cdot \frac{l^2}{2} - \frac{ql^4}{4EI} = 0$$

$$X = \frac{9ql}{4EI} \cdot \frac{3EI}{rl} - \frac{11}{14} \cdot \frac{3EI}{rl} =$$

$$= \frac{3}{4} ql - \frac{9ql}{4} = -\frac{3}{4} ql$$

$$\Rightarrow \downarrow X = \frac{3}{4} ql$$