

(2)

$$\frac{4EI}{l} \varphi_c + \frac{2EI}{l} \varphi_B + \frac{3EI}{l} \varphi_c$$

$$\sum M_c = 0 \quad ql^2 + \frac{2EI}{l} \varphi_B + \frac{7EI}{l} \varphi_c = 0 \quad *$$

$$\varphi_B = -\frac{l}{2EI} (ql^2 + \frac{7EI}{l} \varphi_c)$$

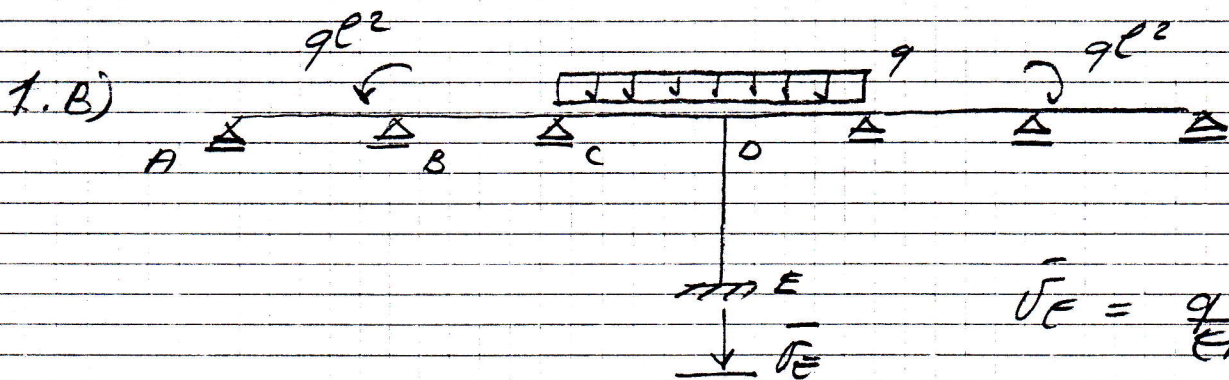
$$\frac{23}{12} ql^2 - \frac{8EI}{l} \frac{l}{2EI} (ql^2 + \frac{7EI}{l} \varphi_c) + \frac{2EI}{l} \varphi_c = 0$$

$$\frac{23}{12} ql^2 - 4ql^2 - \frac{28EI}{l} \varphi_c + \frac{2EI}{l} \varphi_c =$$

$$= -\frac{25}{12} ql^2 - \frac{26EI}{l} \varphi_c = 0$$

$$\varphi_c = -\frac{l}{26EI} \frac{25}{12} ql^2 = -\frac{25}{312} \frac{ql^3}{EI} = -0,0801 \frac{ql^3}{EI}$$

$$\varphi_B = -\frac{l}{2EI} (ql^2 - \frac{175}{312} ql^2) = -\frac{137}{624} \frac{ql^3}{EI} = -0,2195 \frac{ql^3}{EI}$$



$$\bar{V}_E = \frac{ql^4}{EI}$$

$$M_{BA}^0 = 0$$

$$M_{BC}^0 = 0$$

$$M_{CB}^0 = 0$$

$$M_{CD}^0 = \frac{ql^2}{12} + \frac{6EI}{l^2} \bar{V}_E = \frac{ql^2}{12} + 6ql^2$$

