

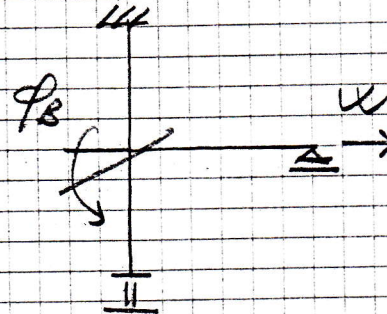
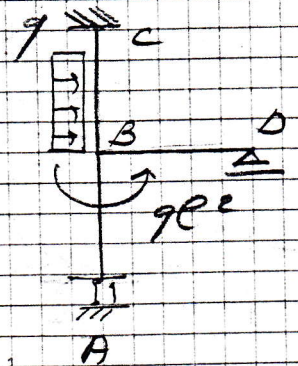
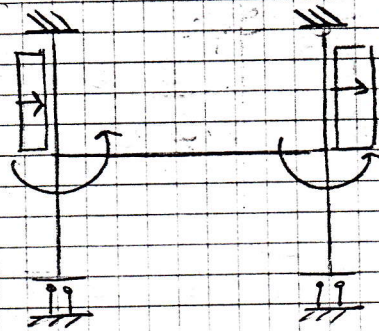
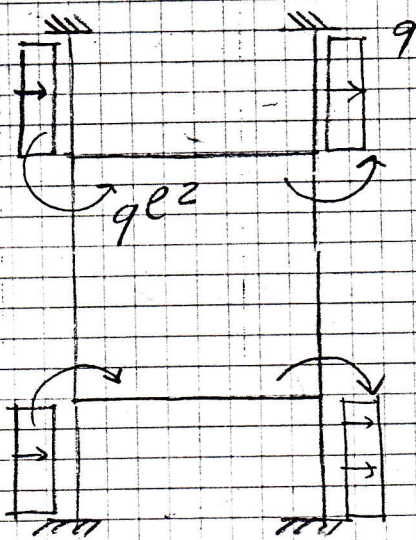
$$= -0,2458 \frac{ql^4}{EI} = \underline{\underline{w}}$$

(5)

$$\varphi_B = -\frac{l}{8EI} \left(\frac{11}{24} ql^2 + \frac{6EI}{l^2} \frac{ql^4}{EI} \cdot 0,2458 \right) =$$

$$= -0,2416 \frac{ql^3}{EI}$$

1.c)



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

$$M_{BA} = \frac{EI}{l} \varphi_B + 0$$

$$M_{BC}^o = \frac{ql^2}{12}$$

$$M_{BC} = \frac{4EI}{l} \varphi_B - \frac{6EI}{l^2} w$$

$$M_{BD}^o = 0$$

$$M_{BD} = \frac{3EI}{l} \varphi_B$$

$$-\frac{4EI}{l} \varphi_B \quad \leftarrow \frac{6EI}{l^2} w$$

$$\begin{array}{c} \curvearrowright -\frac{ql^2}{12} \\ \text{---} B \text{---} \\ \curvearrowleft ql^2 \end{array}$$

$$\curvearrowright -\frac{3EI}{l} \varphi_B$$

$$-\frac{EI}{l} \varphi_B \quad \curvearrowleft$$