

nella 1)

(2)

$$-\frac{M_{BA}l}{3EI} + \frac{M_{BD}l}{4EI} - \frac{M_{BD}l}{12EI} - \frac{3ql^3}{96EI} + \frac{47}{48} \frac{ql^3}{EI} =$$

$$= -\frac{M_{BD}l}{3EI} + \frac{M_{BD}l}{4EI} + \frac{91}{96} \frac{ql^3}{EI} = 0$$

$$| M_{BA} = -\frac{3}{4} M_{BD} + \frac{273}{96} ql^2$$

Da cui 4) $| M_{AC} = -M_{BA} - M_{BD} =$

$$= -\frac{3}{4} M_{BD} - \frac{273}{96} ql^2 - M_{BD} = -\frac{7}{4} M_{BD} - \frac{273}{96} ql^2$$

Nella 2)

$$-\frac{3M_{BD}l}{12EI} - \frac{273}{288} \frac{ql^3}{EI} - \frac{7M_{BD}l}{12EI} - \frac{273}{288} \frac{ql^3}{EI} + \frac{21}{24} \frac{ql^3}{EI} = -\frac{5}{6} M_{BD}l - \frac{546}{288} \frac{ql^3}{EI} = 0$$

$$| M_{BD} = -\frac{91 \cdot 6}{8 \cdot 48} ql^2 = -\frac{91}{40} ql^2$$

$$| M_{BC} = -\frac{7}{4} \left(-\frac{91}{40} ql^2 \right) - \frac{273}{96} ql^2 = \frac{637}{160} ql^2 - \frac{273}{96} ql^2 =$$

$$= \frac{1011 - 1365}{480} ql^2 = \frac{546}{480} ql^2 = \frac{273}{240} ql^2 =$$

$$= \frac{91}{80} ql^2$$

$$| M_{BA} = \frac{3}{4} \left(-\frac{91}{40} ql^2 \right) + \frac{273}{96} ql^2 = -\frac{273}{160} ql^2 + \frac{273}{96} ql^2$$