

$$v_1(l) = -\frac{9l^4}{24ES} + \frac{C_1 l^3}{6} + \frac{C_2 l^2}{2} = 0 \rightarrow C_2 = -\frac{C_1 l}{3} + \frac{9l^2}{12ES}$$

$$\psi_1(l) = \psi_2(0) \rightarrow -\frac{9l^3}{6ES} + \frac{C_1 l^2}{2} + C_2 l = D_3 \rightarrow D_3 = -\frac{9l^3}{12ES} + \frac{C_1 l^2}{6}$$

MOMENTO:

$$M_2(x_2) = -\frac{9x_2^2}{2} + D_1 E J x_2 + D_3 E J$$

$$M_2(l) = 0 \rightarrow -\frac{9l^2}{2} + D_1 E J l + D_3 E J = 0 \rightarrow D_1 = \frac{9l}{2EJ} - \frac{D_3}{l}$$

$$M_1(l) = M_2(0) \rightarrow -\frac{9l^2}{2} + C_1 E J l + C_2 E J = D_3 E J \rightarrow D_3 = \frac{-59l^2}{12EJ} + \frac{2C_1 l}{3}$$

(Trave continua  $\Rightarrow$  EJ costante)

$$v_2(l) = 0 \rightarrow -\frac{9l^4}{24EJ} + \frac{D_1 l^3}{6} + \frac{D_3 l^2}{2} + D_3 l = 0$$

$$C_1 = \frac{139l}{28EJ} ; C_2 = \frac{-9l^2}{14EJ} ; D_1 = \frac{-179l}{28EJ} ; D_2 = \frac{-39l^2}{28EJ} ; D_3 = \frac{-9l^3}{168EJ}$$

VERIFICA

$$\psi_1(l) = \psi_2(0) \rightarrow -\frac{9l^3}{6EJ} + \frac{139l}{28EJ} \cdot \frac{l^2}{2} - \frac{9l^2}{14EJ} \cdot l = \frac{-9l^3}{168EJ} \rightarrow \frac{-9l^3}{168EJ} = \frac{-9l^3}{168EJ} \checkmark$$

$$M_1(l) = M_2(0) \rightarrow -\frac{9l^2}{2} + \frac{139l}{28EJ} \cdot E J l - \frac{9l^2}{14EJ} E J = \frac{-39l^2}{28EJ} \rightarrow \frac{-39l^2}{28EJ} = \frac{-39l^2}{28EJ} \checkmark$$