

$$- 50 \frac{EI \delta_B}{l^2} + \frac{5}{4} q l^2 + \frac{3EI}{l^2} \delta_B + \frac{q l^2}{4} =$$

(3)

$$- 47 \frac{EI}{l^2} \delta_B + \frac{3}{2} q l^2 = 0$$

$$\delta_B = \frac{l^2}{47EI} \cdot \frac{3}{2} q l^2 = \frac{3}{94} \frac{q l^4}{EI} = 0.0319 \frac{q l^4}{EI}$$

$$\varphi_B = \frac{l^3}{3EI} \left(15 \frac{EI}{l^3} \cdot \frac{3}{94} \frac{q l^4}{EI} - \frac{3}{8} q l \right) =$$

$$= \frac{15}{94} \frac{q l^4}{EI} - \frac{q l^4}{8EI} = \frac{13}{376} \frac{q l^4}{EI} = 0.0345 \frac{q l^4}{EI}$$