

$$\sum M_B = 0$$

(4)

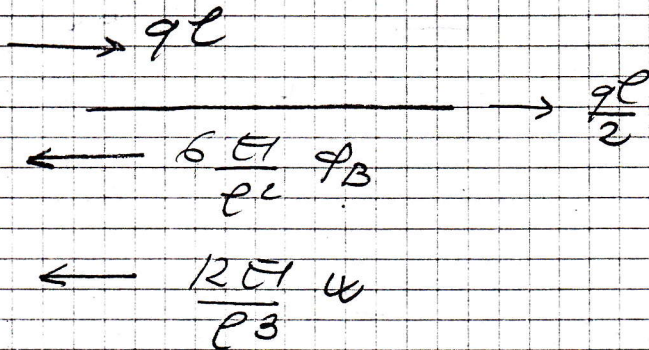
$$\frac{9l^2}{3} + \frac{EI}{l} \phi_B + \frac{9l^2}{8} + \frac{3EI}{l} \phi_B + \frac{4EI}{l} \phi_B + \frac{6EI}{l^2} \psi = 0$$

$$= \frac{11}{24} \frac{9l^2}{EI} + \frac{8EI}{l} \phi_B + \frac{6EI}{l^2} \psi = 0$$

$$\phi_B = - \frac{l}{8EI} \left(\frac{11}{24} 9l^2 + \frac{6EI}{l^2} \psi \right)$$

$$T_{BC}^0 = -9l \quad T_{BC} = 0 + 0$$

$$T_{BA}^0 = 0 \quad T_{BA} = \frac{6EI}{l^2} \phi_B + \frac{12EI}{l^3} \psi$$



$$\sum X = 0$$

$$9l + \frac{9l}{2} - \frac{6EI}{l^2} \phi_B - \frac{12EI}{l^3} \psi = 0$$

$$\frac{3}{2} 9l$$

$$\frac{6EI}{l^2} \cdot \frac{l}{8EI} \left(\frac{11}{24} 9l^2 + \frac{6EI}{l^2} \psi \right) - \frac{12EI}{l^3} \psi + \frac{3}{2} 9l =$$

$$= - \frac{66}{192} 9l + \frac{36}{8} \frac{EI}{l^3} \psi - \frac{12EI}{l^3} \psi + \frac{3}{2} 9l =$$

$$= \frac{354}{192} 9l - \frac{60}{8} \frac{EI}{l^3} \psi = 0$$

$$\psi = \frac{354}{192} \frac{8}{60} 9l \frac{l^3}{EI} = \frac{2832}{14520} \frac{9l^4}{EI} =$$