



$$\begin{aligned} \sum F_{ix} = 0 & \quad R_{Ax} = 0 \\ \sum F_{iy} = 0 & \quad R_{Ay} - q \cdot 3l + R_B = 0 \\ \sum M_{iA} = 0 & \quad q \cdot 3l \cdot \frac{3}{2}l - R_B \cdot 2l = 0 \end{aligned}$$

$$R_B \cdot 2l = \frac{9}{2} q \cdot l^2 / 2l$$

$$R_B = \frac{9}{4} q \cdot l$$

$$R_B = 2 \frac{1}{4} q \cdot l$$

$$R_{Ay} = 3q \cdot l - R_B$$

$$R_{Ay} = 3q \cdot l - 2 \frac{1}{4} q \cdot l$$

$$R_{Ay} = \frac{3}{4} q \cdot l$$

$$0 < x < 2l$$

$$T = R_{Ay} - q \cdot x$$

$$M_g = R_{Ay} \cdot x - q \cdot x \cdot \frac{x}{2}$$

$$d/dx \ x = 0$$

$$M_g = 0$$

$$d/dx \ x = 2l$$

$$M_g = \frac{3}{4} q \cdot l \cdot 2l - q \cdot \frac{(2l)^2}{2} = 1 \frac{1}{2} q l^2 - 2 q l^2 = -\frac{1}{2} q l^2$$

$$d/dx \ x = 0$$

$$T = \frac{3}{4} q \cdot l$$

$$d/dx \ x = 2l$$

$$T = \frac{3}{4} q \cdot l - 2q \cdot l$$

$$T = -1 \frac{1}{4} q \cdot l$$

$$\frac{dM_g}{dx} = R_{Ay} - q \cdot x$$

$$\frac{3}{4} q \cdot l - q \cdot x = 0$$

$$q \cdot x = \frac{3}{4} q \cdot l / q$$

$$x = \frac{3}{4} l$$

$$M_g(\frac{3}{4}l) = \frac{3}{4} q \cdot l \cdot (\frac{3}{4}l) - q \cdot \frac{(\frac{3}{4}l)^2}{2}$$

$$M_g(\frac{3}{4}l) = \frac{9}{16} q \cdot l^2 - \frac{9}{32} q \cdot l^2$$

$$M_g(\frac{3}{4}l) = \frac{9}{32} q \cdot l^2$$

$$M_g(\frac{3}{4}l) = 0,28 q \cdot l^2$$

$$2l < x < 3l$$

$$T = R_{Ay} - q \cdot x + R_B$$

$$M_g = R_{Ay} \cdot x - q \cdot x \cdot \frac{x}{2} + R_B(x - 2l)$$

$$d/dx \ x = 2l$$

$$M_g = \frac{3}{4} q \cdot l \cdot (2l) - q \cdot \frac{(2l)^2}{2} + 2 \frac{1}{4} q \cdot l \cdot (2l - 2l)$$

$$M_g = \frac{6}{4} q \cdot l^2 - 2 q l^2$$

$$M_g = -\frac{1}{2} q \cdot l^2$$

$$d/dx \ x = 3l$$

$$M_g = \frac{3}{4} q \cdot l \cdot (3l) - q \cdot \frac{(3l)^2}{2} + 2 \frac{1}{4} q \cdot l \cdot l$$

$$M_g = \frac{9}{4} q \cdot l^2 - \frac{9}{2} q \cdot l^2 + 2 \frac{1}{4} q \cdot l^2$$

$$M_g = (\frac{9}{4} - \frac{18}{4} + \frac{2}{4}) q \cdot l^2$$

$$M_g = 0$$

$$d/dx \ x = 2l$$

$$T = \frac{3}{4} q \cdot l - 2q \cdot l + 2 \frac{1}{4} q \cdot l$$

$$T = q \cdot l$$

$$d/dx \ x = 3l$$

$$T = \frac{3}{4} q \cdot l - 3q \cdot l + 2 \frac{1}{4} q \cdot l = 0$$