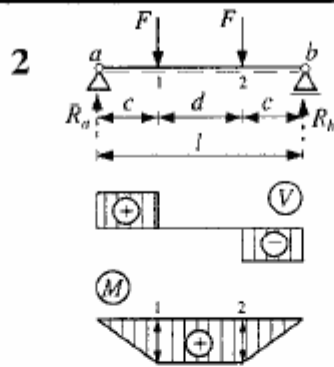


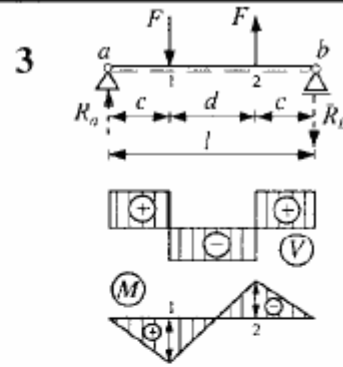
$$R_a = V_a = \frac{Fd}{l}, \quad R_b = -V_b = \frac{Fc}{l}$$

$$M_1 = M_{\max} = \frac{Fcd}{l}$$



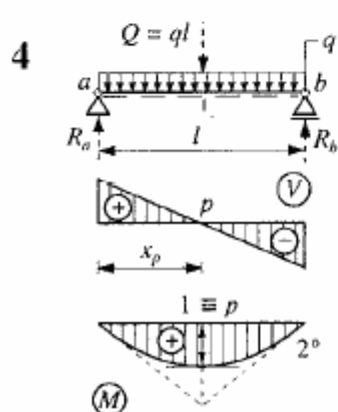
$$R_a = V_a = F, \quad R_b = -V_b = F$$

$$M_1 = M_2 = Fc$$



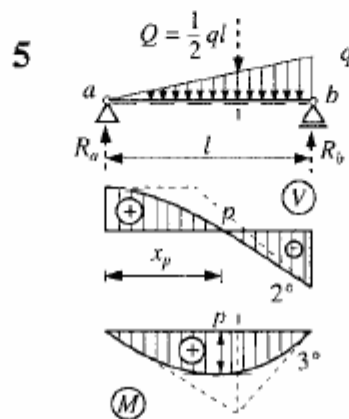
$$R_a = R_b = \frac{Fd}{l} = V_a = V_b$$

$$M_1 = -M_2 = \frac{Fcd}{l}$$



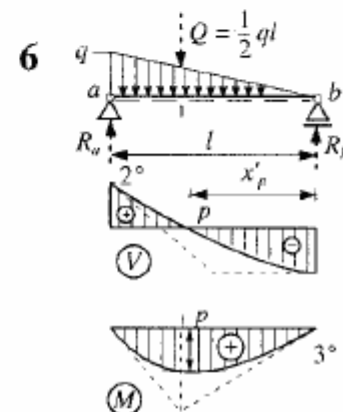
$$R_a = V_a = \frac{1}{2}ql, \quad R_b = -V_b = \frac{1}{2}ql$$

$$x_p = \frac{l}{2}, \quad M_p = \frac{1}{8}ql^2$$



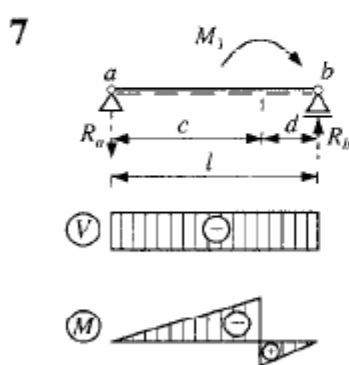
$$R_a = V_a = \frac{1}{6}ql, \quad R_b = -V_b = \frac{1}{3}ql$$

$$x_p = \frac{l}{\sqrt{3}}, \quad M_p = \frac{\sqrt{3}}{27}ql^2$$



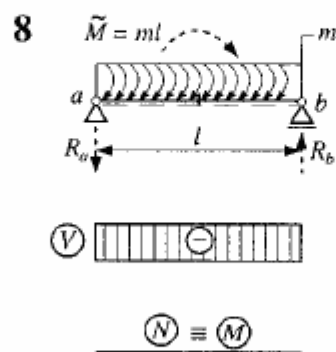
$$R_a = V_a = \frac{1}{3}ql, \quad R_b = -V_b = \frac{1}{6}ql$$

$$x'_p = \frac{l}{\sqrt{3}}, \quad M_p = \frac{\sqrt{3}}{27}ql^2$$



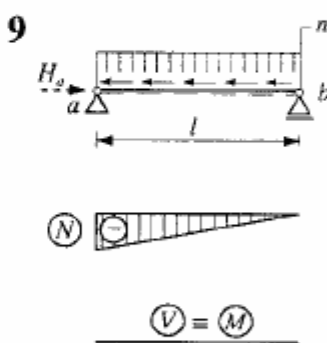
$$R_a = R_b = \frac{M_1}{l}, \quad V_a = V_b = -\frac{M_1}{l}$$

$$M_{1a} = -\frac{M_1}{l}c, \quad M_{1b} = \frac{M_1}{l}d$$



$$R_a = R_b = m, \quad V_a = V_b = -m$$

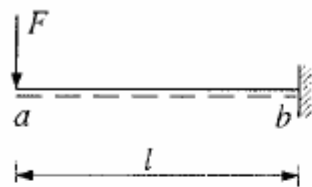
$$N \equiv M$$



$$N_a = H_a = -nl, \quad N_b = 0$$

$$V \equiv M$$

1



(V)

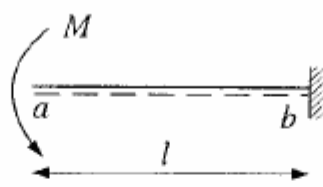


(M)

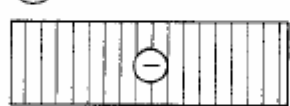
$$V_a = V_b = -F$$

$$M_b = -Fl$$

2



(V)

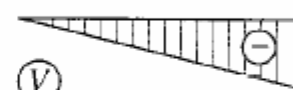
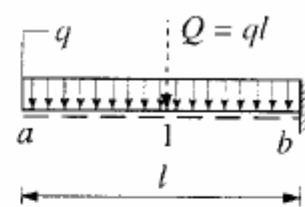


(M)

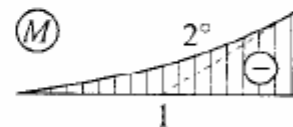
$$V_a = V_b = 0$$

$$M_a = M_b = -M$$

3



(V)

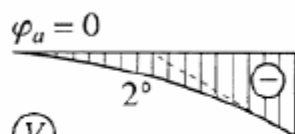
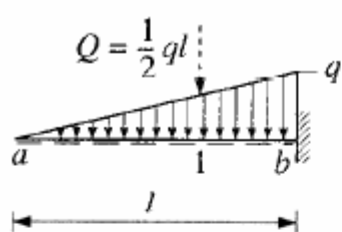


(M)

$$V_b = -ql$$

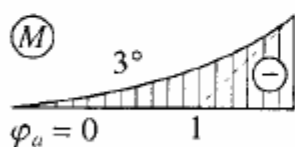
$$M_b = -\frac{1}{2}ql^2$$

4



$\varphi_a = 0$

(V)

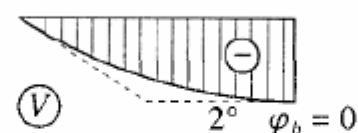
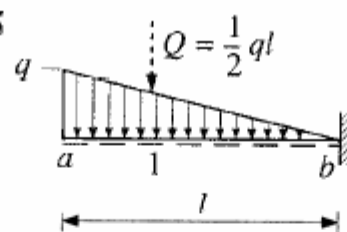


(M)

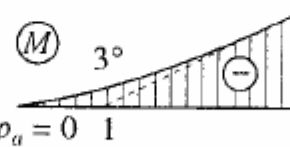
$$V_b = -\frac{1}{2}ql$$

$$M_b = -\frac{1}{6}ql^2$$

5



(V)

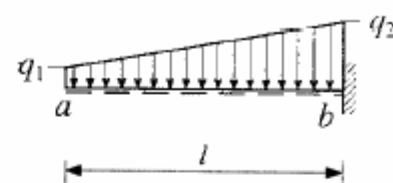


(M)

$$V_b = -\frac{1}{2}ql$$

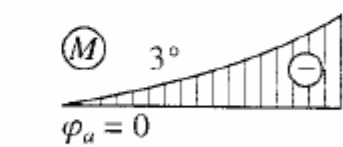
$$M_b = -\frac{1}{3}ql^2$$

6



$\varphi_a \neq 0$

(V)



(M)

$$V_b = -\frac{1}{2}(q_1 + q_2)l$$

$$M_b = -\frac{1}{6}(2q_1 + q_2)l^2$$