

**\*18-26.** Determine the resultant internal loadings acting on the beam section through point D. Assume the reactions at the supports A and B are correct.



Shearing to the FBD of the entire beam, Fig. a.

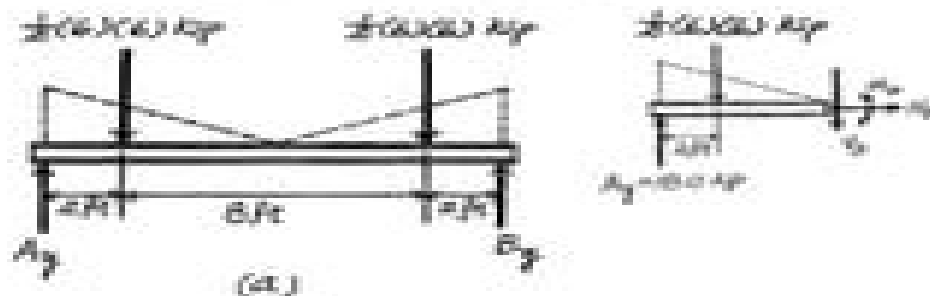
$$\sum F_y = 0 \quad \frac{1}{2}(4)(6)(2) + \frac{1}{2}(4)(6)(2) - A_y(12) = 0 \quad A_y = 16.0 \text{ kN}$$

Shearing to the FBD of the segment, Fig. b.

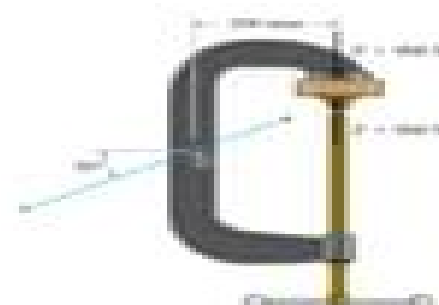
$$-\frac{1}{2}(2)(3) = 0 \quad N_D = 0 \quad \text{Ans.}$$

$$+\frac{1}{2}(2)(3) = 0 \quad 18.0 + \frac{1}{2}(2)(6) - V_D = 0 \quad V_D = 18.0 \quad \text{Ans.}$$

$$\sum M_D = 0 \quad M_D + 18.0(2) = 0 \quad M_D = -36.0 \text{ kN}\cdot\text{m} \quad \text{Ans.}$$



**\*18-27.** The largest steel clamp weighs a total of  $P = 1000 \text{ N}$  on the wooden block. Determine the resultant internal loadings acting on section a-a passing through point B.



**Internal Loadings:** Shearing to the free-body diagram of the section of the clamp shown in Fig. a.

$$\sum F_y = 0 \quad 1000 \cos 30^\circ - B_{x/a} = 0 \quad B_{x/a} = 775 \text{ N} \quad \text{Ans.}$$

$$\sum F_x = 0 \quad V_{a/a} - 1000 \sin 30^\circ = 0 \quad V_{a/a} = 450 \text{ N} \quad \text{Ans.}$$

$$\sum M = 0 \quad 1000(0.25) - M_{a/a} = 0 \quad M_{a/a} = 250 \text{ N}\cdot\text{m} \quad \text{Ans.}$$



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**O García**



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