

***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 beam from Fig. a.

$$\sum F_x = 0 \quad \frac{1}{2}(4)(6)(2) = \frac{1}{2}(4)(6)(2) = 12(2) = 0 \quad A_x = 0 \text{ kN}$$

Shearing to the FBD of the segment Fig. b.

$$\sum F_x = 0 \quad N_D = 0$$

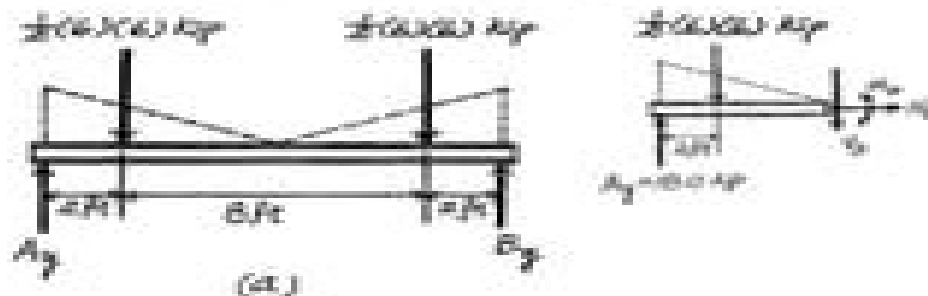
Ans.

$$+\uparrow \sum F_y = 0 \quad 12(3) + \frac{1}{2}(4)(3)(2) - V_D = 0 \quad V_D = 0$$

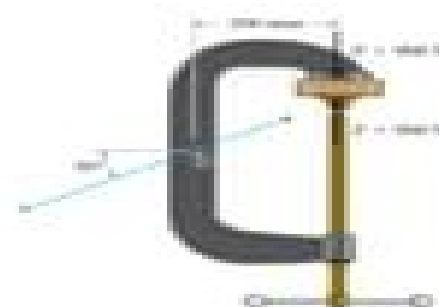
Ans.

$$\sum M_D = 0 \quad M_D + 12(3)(2) = 0 \quad M_D = -36 \text{ kN}\cdot\text{m}$$

Ans.



***18-27.** The largest steel clamp weighs a total of $P = 1000$ 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.

$$\sum F_x = 0 \quad 1000 \cos 30^\circ - N_{a-a} = 0$$

$$N_{a-a} = 775 \text{ N}$$

Ans.

$$\sum F_y = 0 \quad V_{a-a} - 1000 \sin 30^\circ = 0$$

$$V_{a-a} = 450 \text{ N}$$

Ans.

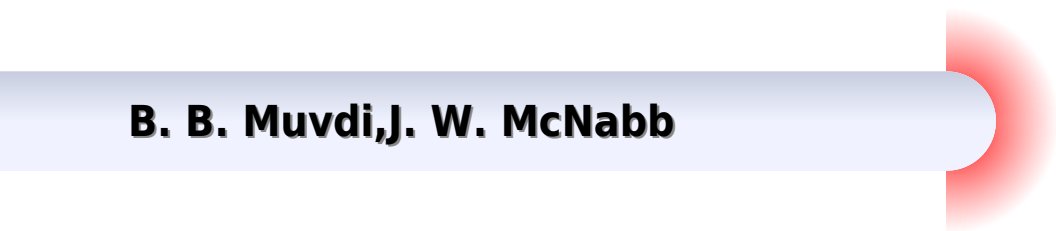
$$\sum M = 0 \quad 1000(2) - M_{a-a} = 0 \quad M_{a-a} = 200 \text{ N}\cdot\text{m}$$

Ans.



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