

***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.



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

$$\sum C = \sum M_A = 0; \quad \frac{1}{2}(4)(6)(2) = \frac{1}{2}(4)(6)(6) - A_B(12) = 0; \quad A_B = 16.0 \text{ kN}$$

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

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

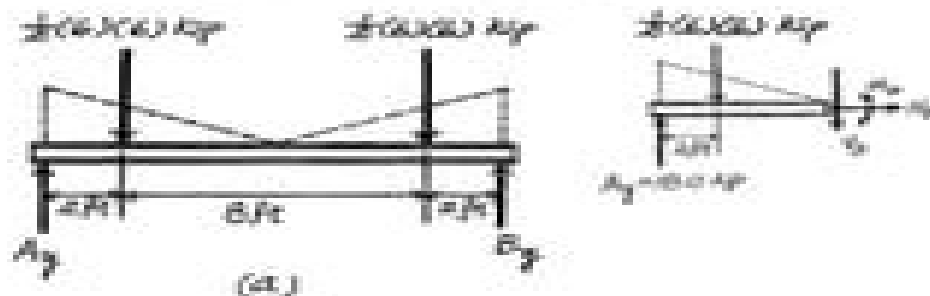
Ans.

$$+\circlearrowleft \sum M_D = 0; \quad (16.0)\left(\frac{1}{2}(6)(2)\right) - V_D(2) = 0; \quad V_D = 48.0$$

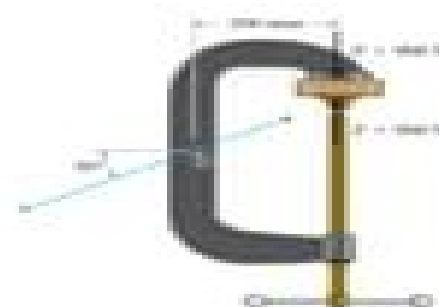
Ans.

$$\sum C = \sum M_A = 0; \quad M_D - 16.0(2) = 0; \quad M_D = 32.0 \text{ kN}\cdot\text{m}$$

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: Reactions to the free-body diagram of the section of the clamp shown in Fig. a.

$$\sum F_x = 0; \quad 1000 \cos 30^\circ - B_{x(a-a)} = 0$$

$$B_{x(a-a)} = 775 \text{ N}$$

Ans.

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

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

Ans.

$$\sum C = \sum M_B = 0; \quad 1000(0.2) - M_{(a-a)} = 0$$

$$M_{(a-a)} = 200 \text{ N}\cdot\text{m}$$

Ans.



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