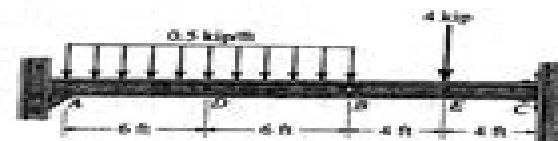


7-33. Determine the internal normal force, shear force, and bending moment in the beam at points D and E . Point E is just to the right of the 4-kip load. Assume A is a roller support, the splice at B is a pin, and C is a fixed support.



Support Reactions : Support reactions at C need not be computed for this case. From FBD (a),

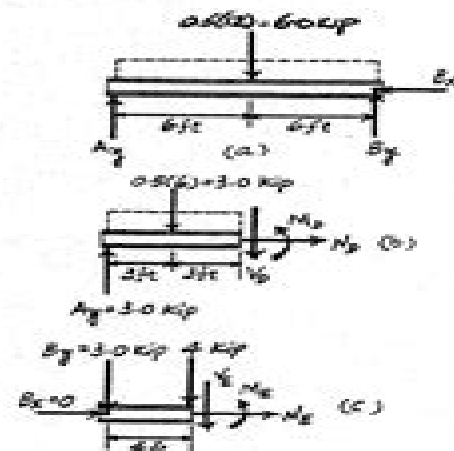
$$\begin{aligned} \sum M_B = 0; & \quad 6.00(6) - A_y(12) = 0 & A_y = 3.00 \text{ kN} \\ + \uparrow \sum F_y = 0; & \quad B_y + 3.00 - 6.00 = 0 & B_y = 3.00 \text{ kN} \\ \rightarrow \sum F_x = 0 & & B_x = 0 \end{aligned}$$

Internal Forces : Applying the equations of equilibrium to segment AD [FBD (b)], we have

$$\begin{aligned} \rightarrow \sum F_x = 0; & \quad N_D = 0 & \text{Ans} \\ + \uparrow \sum F_y = 0; & \quad 3.00 - 3.00 - V_D = 0 & V_D = 0 & \text{Ans} \\ \sum M_D = 0; & \quad M_D - 3.00(3) = 0 & M_D = 9.00 \text{ kN} \cdot \text{m} & \text{Ans} \end{aligned}$$

Applying the equations of equilibrium to segment BE [FBD (c)], we have

$$\begin{aligned} \rightarrow \sum F_x = 0; & \quad N_E = 0 & \text{Ans} \\ + \uparrow \sum F_y = 0; & \quad -3.00 - 4 - V_E = 0 & V_E = -7.00 \text{ kN} & \text{Ans} \\ \sum M_E = 0; & \quad M_E + 3.00(4) = 0 & M_E = -12.0 \text{ kN} \cdot \text{m} & \text{Ans} \end{aligned}$$



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