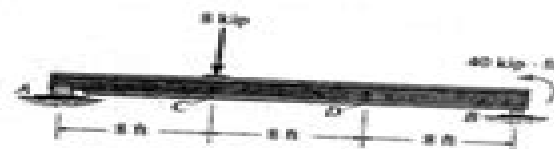


7-6. Determine the internal normal force and shear force, and the bending moment in the beam at points *C* and *D*. Assume the support at *B* is a roller. Point *C* is located just to the right of the 8-kip load.



Support Reactions : FBD (a).

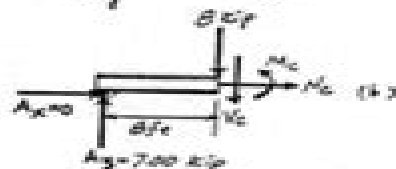
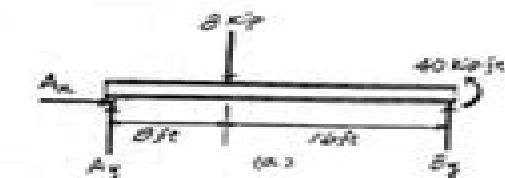
$$\begin{aligned} \zeta + \Sigma M_A = 0: & B_y(24) + 40 - 8(8) = 0 & B_y = 1.00 \text{ kip} \\ + \uparrow \Sigma F_y = 0: & A_y + 1.00 - 8 = 0 & A_y = 7.00 \text{ kip} \\ \rightarrow \Sigma F_x = 0: & A_x = 0 \end{aligned}$$

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

$$\begin{aligned} \rightarrow \Sigma F_x = 0: & N_C = 0 & \text{Ans} \\ + \uparrow \Sigma F_y = 0: & 7.00 - 8 - V_C = 0 & V_C = -1.00 \text{ kip} & \text{Ans} \\ \zeta + \Sigma M_C = 0: & M_C - 7.00(8) = 0 & M_C = 56.0 \text{ kip}\cdot\text{ft} & \text{Ans} \end{aligned}$$

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

$$\begin{aligned} \rightarrow \Sigma F_x = 0: & N_D = 0 & \text{Ans} \\ + \uparrow \Sigma F_y = 0: & V_D + 1.00 = 0 & V_D = -1.00 \text{ kip} & \text{Ans} \\ \zeta + \Sigma M_D = 0: & 1.00(8) + 40 - M_D = 0 & M_D = 48.0 \text{ kip}\cdot\text{ft} & \text{Ans} \end{aligned}$$



7-7. Determine the shear force and moment at points *C* and *D*.

Support Reactions : FBD (a).

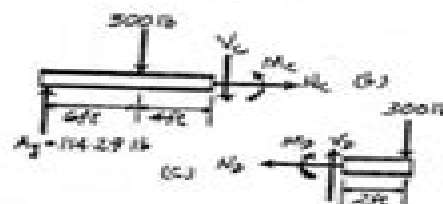
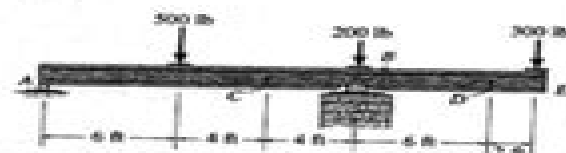
$$\zeta + \Sigma M_A = 0: \quad 300(8) - 300(8) - A_y(14) = 0 \\ A_y = 114.29 \text{ lb}$$

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

$$\begin{aligned} \rightarrow \Sigma F_x = 0: & N_C = 0 & \text{Ans} \\ + \uparrow \Sigma F_y = 0: & 114.29 - 300 - V_C = 0 & V_C = -185.7 \text{ lb} & \text{Ans} \\ \zeta + \Sigma M_C = 0: & M_C + 300(4) - 114.29(10) = 0 & M_C = -857 \text{ lb}\cdot\text{ft} & \text{Ans} \end{aligned}$$

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

$$\begin{aligned} \rightarrow \Sigma F_x = 0: & N_D = 0 & \text{Ans} \\ + \uparrow \Sigma F_y = 0: & V_D - 300 = 0 & V_D = 300 \text{ lb} & \text{Ans} \\ \zeta + \Sigma M_D = 0: & -M_D - 300(2) = 0 & M_D = -600 \text{ lb}\cdot\text{ft} & \text{Ans} \end{aligned}$$



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