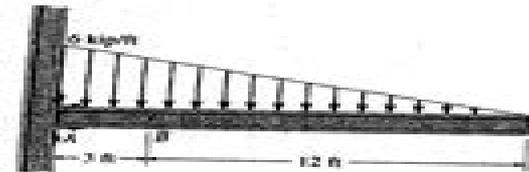


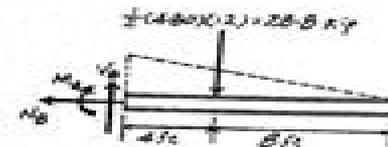
7-21. Determine the internal normal force, shear force, and bending moment in the beam at point B .



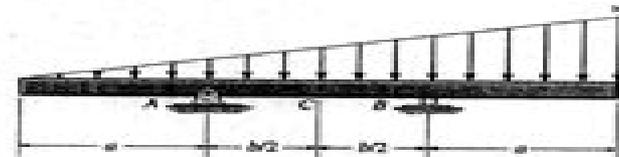
Free Body Diagram: The support reactions at A need not be computed.

Internal Forces: Applying the equations of equilibrium to segment CB , we have:

$$\begin{aligned} \rightarrow \sum F_x = 0; \quad N_B &= 0 & \text{Ans} \\ + \uparrow \sum F_y = 0; \quad V_B - 28.8 &= 0 \quad V_B = 28.8 \text{ kip} & \text{Ans} \\ \curvearrowleft \sum M_B = 0; \quad -28.8(4) - M_B &= 0 & \text{Ans} \\ M_B &= -115.2 \text{ kip}\cdot\text{ft} \end{aligned}$$



7-22. Determine the ratio of a/b for which the shear force will be zero at the midpoint C of the beam.

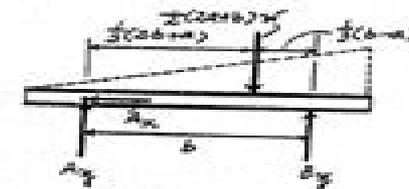


Support Reactions: From FBD (a),

$$\begin{aligned} \curvearrowleft \sum M_B = 0; \quad \frac{1}{2}(2a+b) \left[\frac{1}{2}(b-a) \right] - A_y(b) &= 0 \\ A_y &= \frac{b}{2a}(2a+b)(b-a) \end{aligned}$$

Internal Forces: This problem requires $V_C = 0$. Summing forces vertically (FBD (b)), we have

$$\begin{aligned} + \uparrow \sum F_y = 0; \quad \frac{b}{2a}(2a+b)(b-a) - \frac{1}{2}\left(a + \frac{b}{2}\right)\left(\frac{b}{2}\right) &= 0 \\ \frac{b}{2a}(2a+b)(b-a) &= \frac{b}{8}(2a+b) \\ \frac{a}{b} &= \frac{1}{4} & \text{Ans} \end{aligned}$$



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