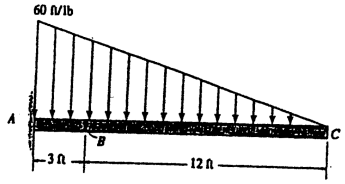
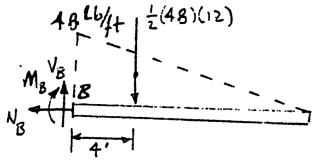
1-17. Determine the resultant internal loadings acting on the cross section at point B.



$\overset{+}{\rightarrow} \Sigma F_x = 0; \quad N_B = 0$ **Ans**

$+\uparrow \Sigma F_y = 0; \quad V_B - \frac{1}{2}(48)(12) = 0$

$V_B = 288 \text{ lb}$ **Ans**



$\zeta + \Sigma M_B = 0; \quad -M_B - \frac{1}{2}(48)(12)(4) = 0$

$M_B = -1152 \text{ lb} \cdot \text{ft} = -1.15 \text{ kip} \cdot \text{ft}$ **Ans**