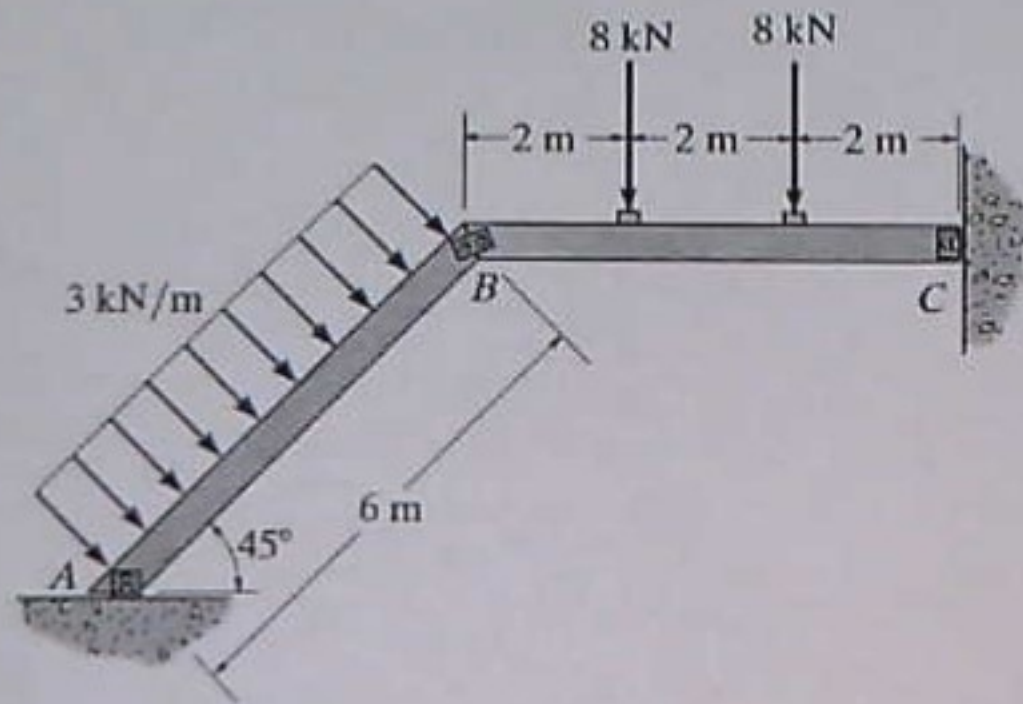
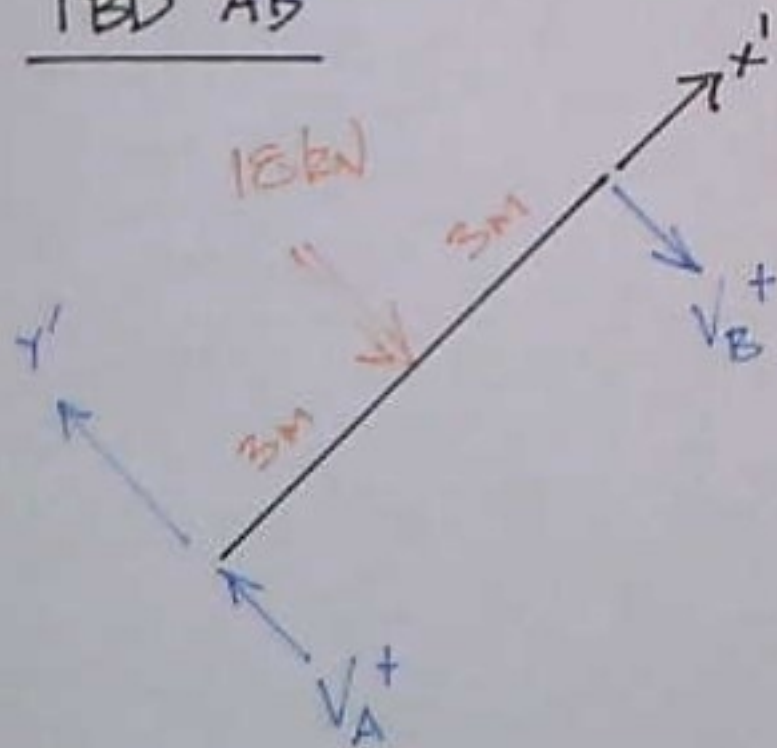




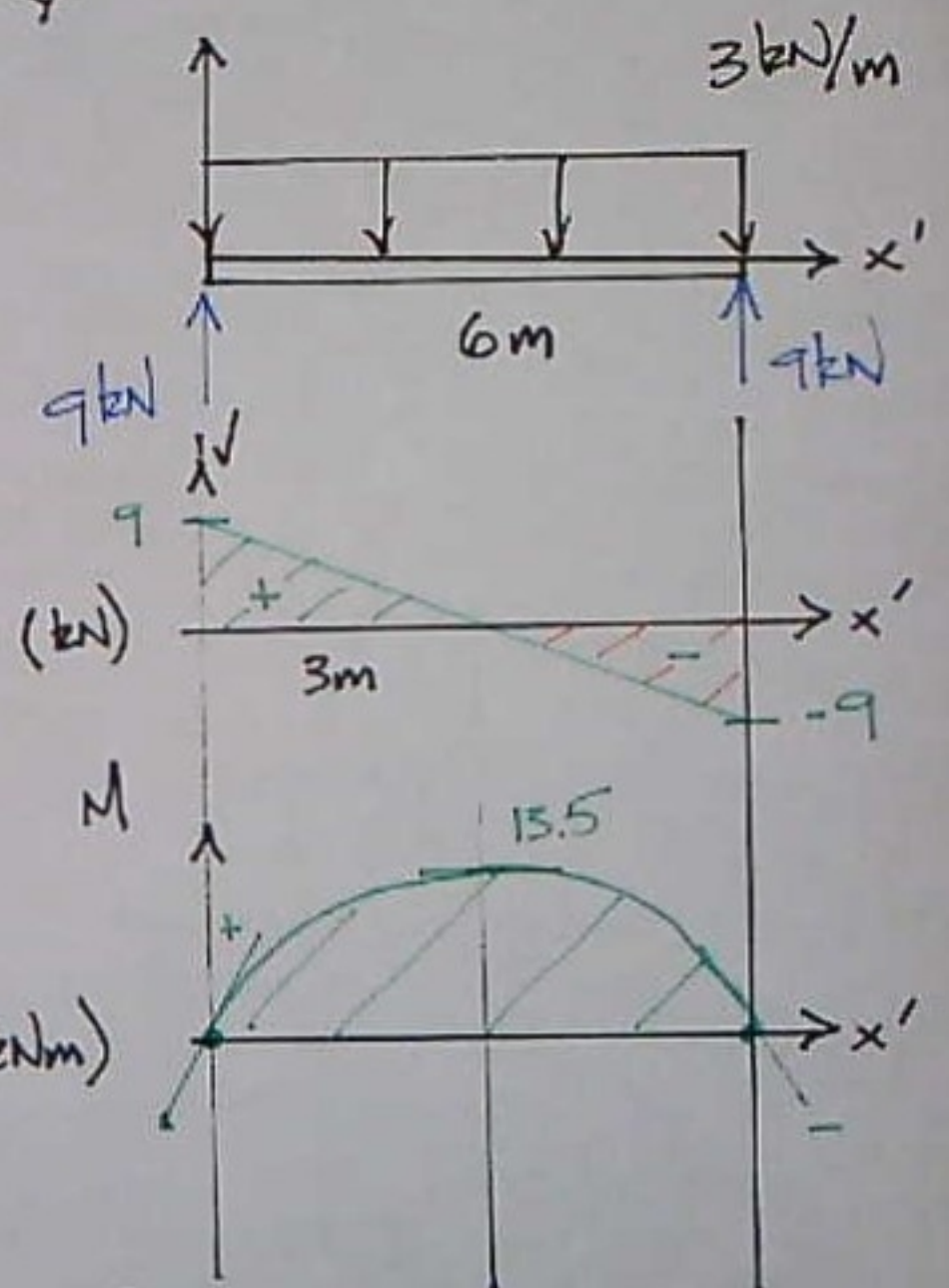
$$\left[\begin{aligned} \Delta V &= \int w dx \\ \frac{dV}{dx} &= w \end{aligned} \right. \quad y'$$

FBD AB



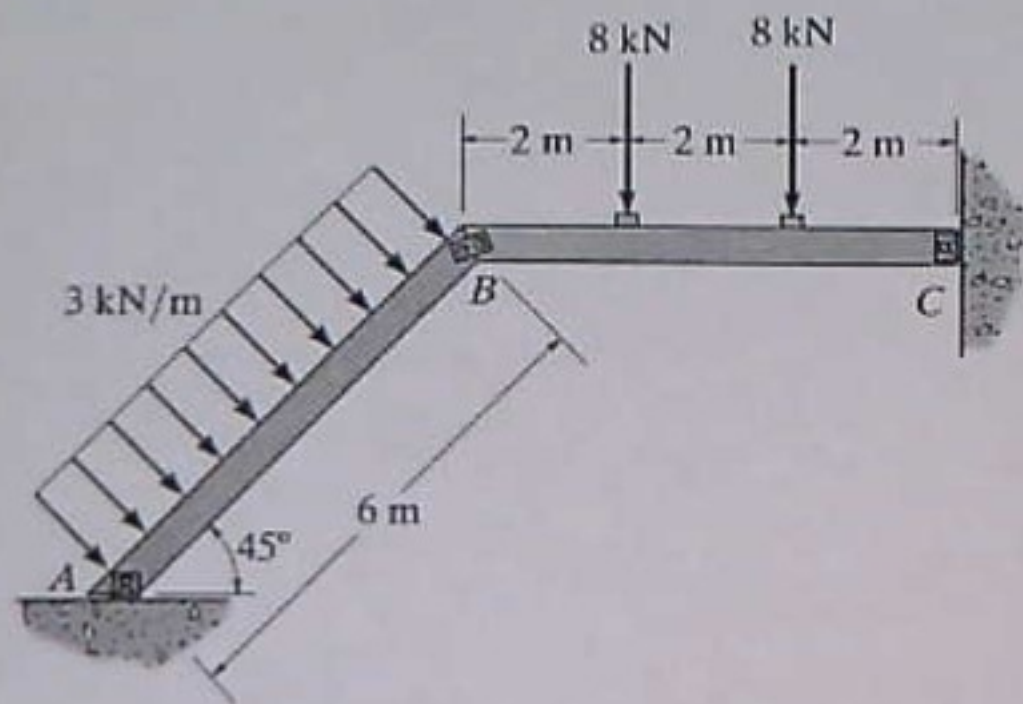
$$\begin{aligned} \textcircled{2} \sum F_{y'} &= 0 \\ &= V_A - V_B - 18 \text{ kN} \\ \underline{\underline{V_A = 9 \text{ kN}}} \end{aligned}$$

$$\begin{aligned} \textcircled{1} \sum M_A &= 0 = -V_B(6 \text{ m}) - 18 \text{ kN}(3 \text{ m}) \\ \underline{\underline{V_B = -9 \text{ kN}}} \end{aligned}$$

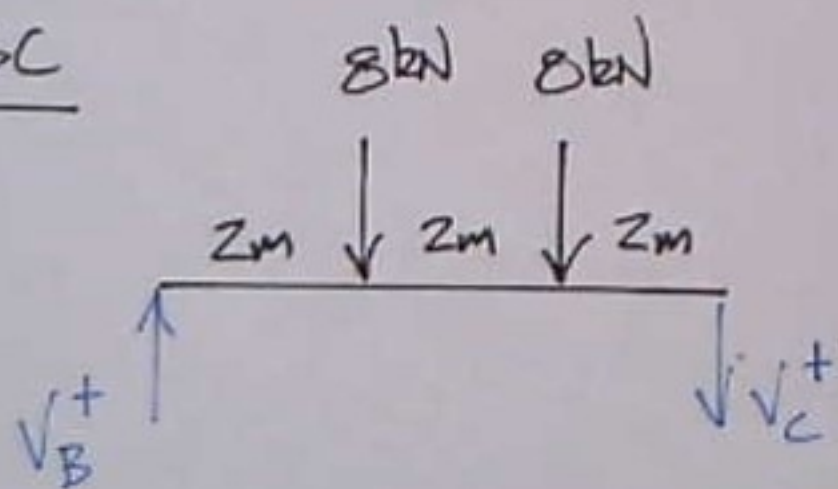


$$\Delta M = \int V dx$$

Example 4d-4: Draw the shear and moment diagrams for the following frame:



FBD BC



$$\textcircled{1} \quad \sum M_B = 0 = -V_C(6\text{m}) - 8\text{kN}(2\text{m}) - 8\text{kN}(4\text{m})$$

$$\underline{\underline{V_C = -8\text{kN}}}$$

$$\textcircled{2} \quad \sum F_y = 0 = V_B - V_C - 8\text{kN} - 8\text{kN}$$

$$\underline{\underline{V_B = 8\text{kN}}}$$

