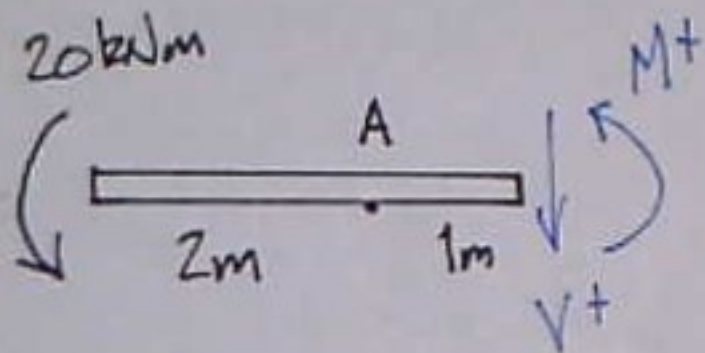
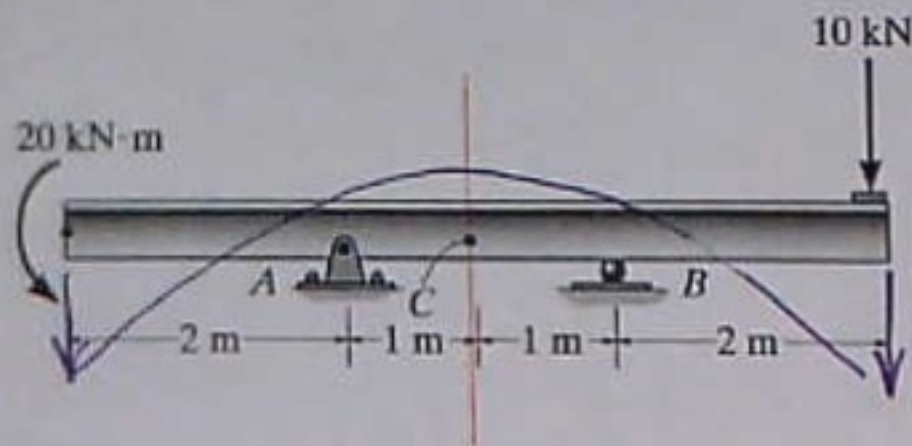


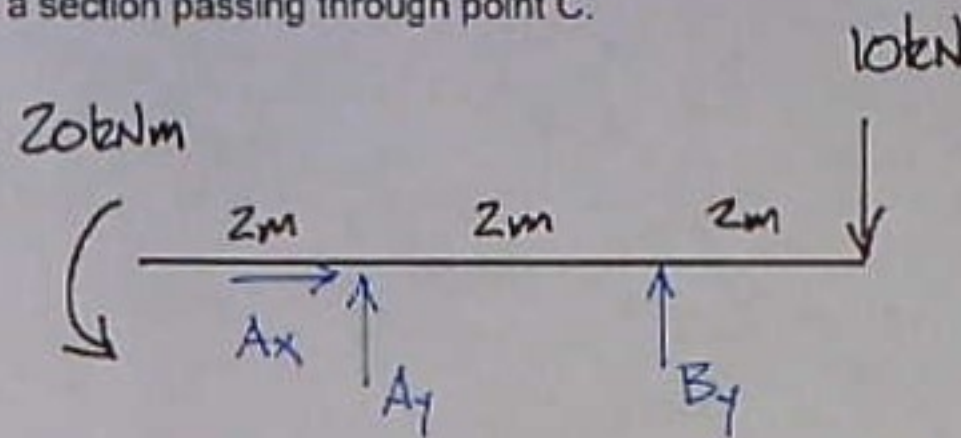
Example 4a-4 - Determine the internal shear and moment in at a section passing through point C.



$$\sum \mathcal{M}_{cut} = 0 = M + 20 \text{ kNm}$$

$$\underline{M = -20 \text{ kNm}}$$

$$+\uparrow \sum F_y = 0 = -V$$

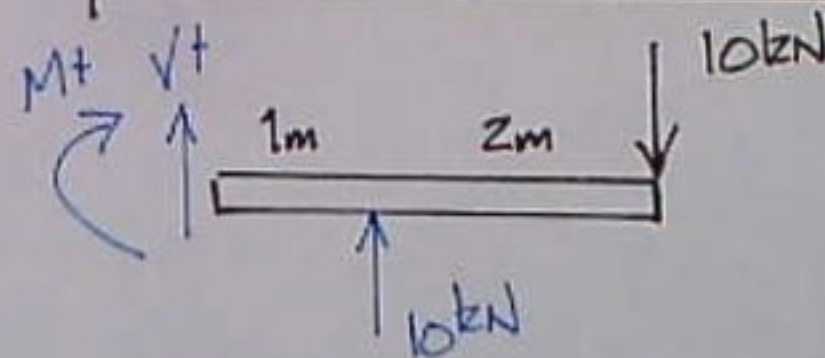


$$\sum \mathcal{M}_A = 0 = B_y(2\text{m}) - 10 \text{ kN}(4\text{m}) + 20 \text{ kNm}$$

$$\underline{B_y = 10 \text{ kN}}$$

$$+\uparrow \sum F_y = 0 = A_y + B_y - 10 \text{ kN} \quad \underline{A_y = 0}$$

$$+\rightarrow \sum F_x = 0 = A_x$$



$$\sum \mathcal{M}_{cut} = 0 = -M + 10 \text{ kN}(1\text{m}) - 10 \text{ kN}(3\text{m})$$

$$\underline{M = -20 \text{ kNm}}$$

$$+\uparrow \sum F_y = 0 = V + 10 \text{ kN} - 10 \text{ kN} \quad \underline{V = 0}$$