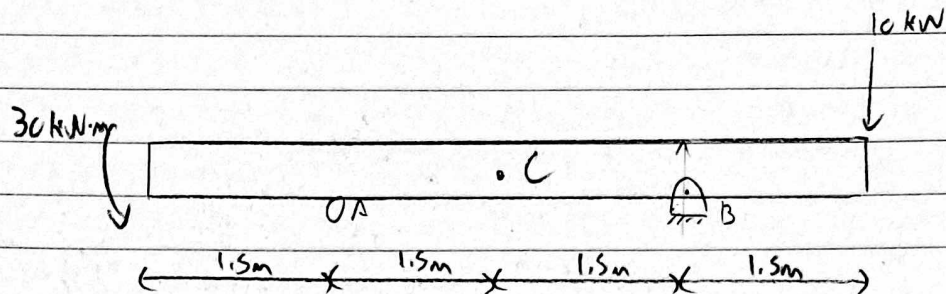


Solutions: 21-5-7.1-MK-01



find force at A_y

$$\sum M_B = (30 \text{ kN}\cdot\text{m}) - 3\text{m}(A_y) - (10 \text{ kN})(1.5\text{m})$$

$$A_y = \frac{30 \text{ kN}\cdot\text{m} - 10 \text{ kN}(1.5\text{m})}{3\text{m}}$$

$$\rightarrow A_y = 5 \text{ kN} \quad \uparrow$$

$$V_C = -A_y$$

$$\rightarrow V_C = 5 \text{ kN} \downarrow$$

$$\sum M_C = 0 = M_C + 5 \text{ kN}(1.5\text{m}) - 30 \text{ kN}\cdot\text{m}$$

$$M_C = 22.5 \text{ kN}\cdot\text{m} \text{ CW}$$