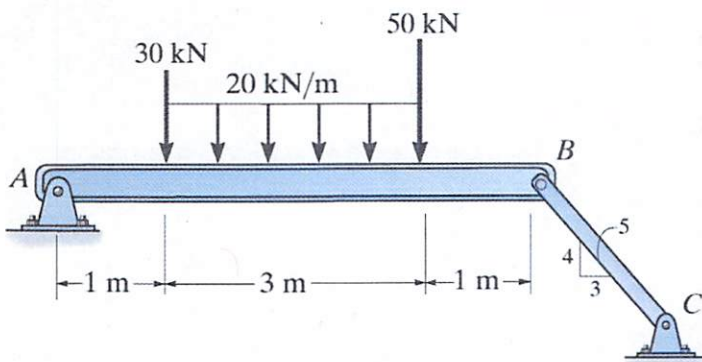


Determine the horizontal and vertical components of reaction at the pins A and C.



FBD AB

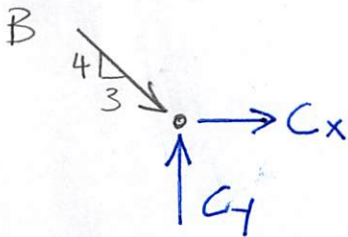


$$\sum M_A = 0$$

$$= -30\text{ kN}(1\text{ m}) - 60\text{ kN}(2.5\text{ m}) - 50\text{ kN}(4\text{ m}) + \frac{4}{5}B(5\text{ m})$$

$$B = 95\text{ kN}$$

JOINT C



$$\sum F_x = 0 = C_x + \frac{3}{5}B$$

$$C_x = -57\text{ kN}$$

$$\sum F_y = 0 = C_y - \frac{4}{5}B$$

$$C_y = 76\text{ kN}$$

$$\sum F_y = 0$$

$$= A_y + \frac{4}{5}B - 30\text{ kN} - 60\text{ kN} - 50\text{ kN}$$

$$A_y = 64\text{ kN}$$

$$\sum F_x = 0 = A_x - \frac{3}{5}B$$

$$A_x = 57\text{ kN}$$