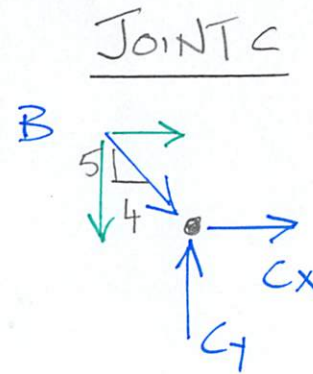
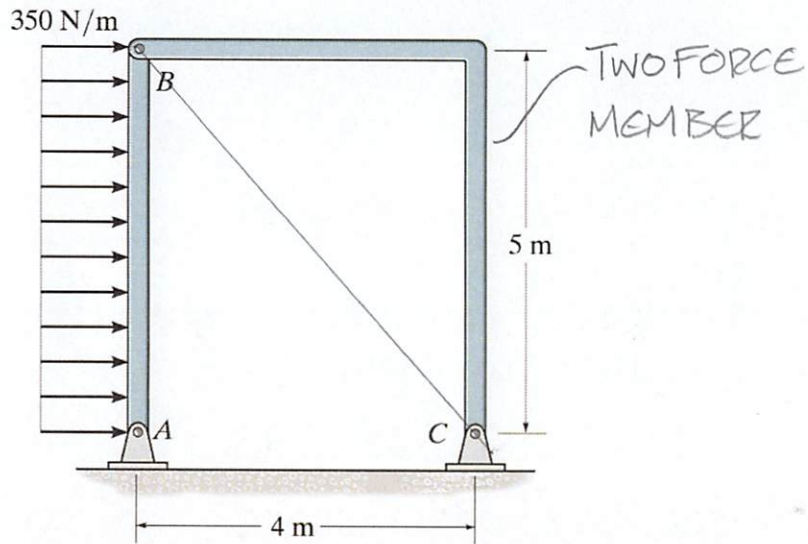


Problem 2a-4 - Determine the horizontal and vertical reactions at A and C of the two-member frame.



$$\rightarrow \sum F_x = 0$$

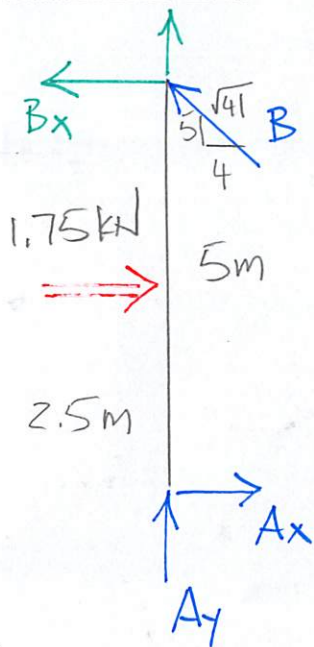
$$= C_x + \frac{4}{5} B$$

$$\underline{\underline{C_x = -0.875 \text{ kN}}}$$

$$\uparrow \sum F_y = 0 = C_y - \frac{3}{5} B$$

$$\underline{\underline{C_y = 1.09 \text{ kN}}}$$

FBD AB



$$\circlearrowleft \sum M_A = 0$$

$$= -1.75 \text{ kN}(2.5 \text{ m}) + \frac{4}{5} B(5 \text{ m})$$

$$\underline{\underline{B = 1.4 \text{ kN}}}$$

$$\uparrow \sum F_y = 0 = A_y + \frac{3}{5} B$$

$$\underline{\underline{A_y = -1.09 \text{ kN}}}$$

$$\rightarrow \sum F_x = 0 = A_x - \frac{4}{5} B + 1.75 \text{ kN}$$

$$\underline{\underline{A_x = -0.875 \text{ kN}}}$$