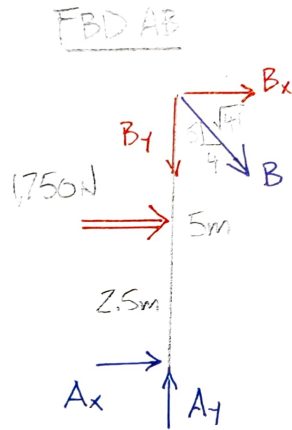
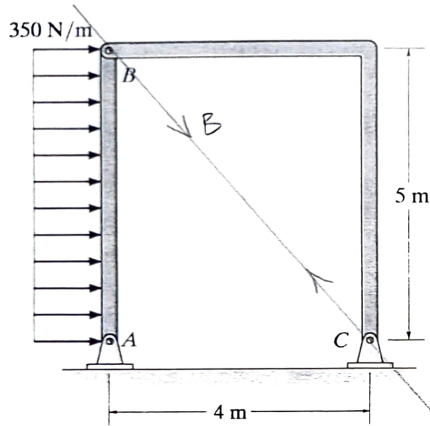


**Problem 2a-4** - Determine the horizontal and vertical reactions at A and C of the two-member frame.



$$\sum \mathcal{M}_A = 0 = -1,750\text{N}(2.5\text{m}) - \frac{4}{\sqrt{41}} B (5\text{m})$$

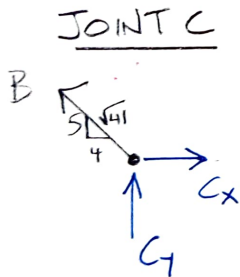
$$\underline{\underline{B = -1,400.7\text{N}}}$$

$$+\uparrow \sum F_y = 0 = A_y - \frac{5}{\sqrt{41}} B$$

$$\underline{\underline{A_y = -1,093.7\text{N}}}$$

$$+\rightarrow \sum F_x = 0 = A_x + \frac{4}{\sqrt{41}} B$$

$$\underline{\underline{A_x = -875\text{N}}}$$



$$+\uparrow \sum F_y = 0 = C_y + \frac{5}{\sqrt{41}} B$$

$$\underline{\underline{C_y = 1,093.7\text{N}}}$$

$$+\rightarrow \sum F_x = 0 = C_x - \frac{4}{\sqrt{41}} B$$

$$\underline{\underline{C_x = -875\text{N}}}$$