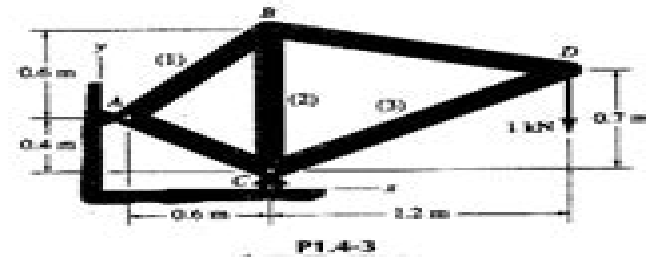


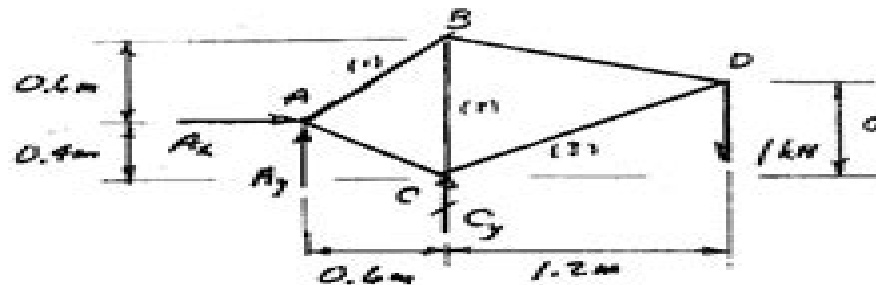
Prob. 1.4-3. For the pin-jointed truss in Fig. P1.4-3, (a) determine the reactions at the supports at A and C, and (b) determine the axial force in each of the following members: F_1 (in member AB), F_2 (in member BC), and F_3 (in member CD).



Solution

(a) Reactions at supports A and C.

Equilibrium of complete truss.



From FBD of entire truss,

$$+\circlearrowleft (\sum M)_A = 0$$

$$C_y (0.6 \text{ m}) - (1 \text{ kN}) (1.2 \text{ m}) = 0$$

$$C_y = 3 \text{ kN}$$

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

$$A_x = 0$$

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

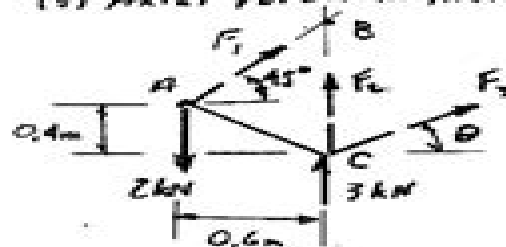
$$C_y + A_y - 1 \text{ kN} = 0$$

$$A_y = -2 \text{ kN}$$

$$\boxed{A_x = 0, A_y = 2 \text{ kN } \downarrow, C_y = 3 \text{ kN } \uparrow}$$

Ans. (a)

(b) Axial forces in members 1-3.



From FBD of AC and connecting members,

$$\tan \theta = \frac{0.7 \text{ m}}{1.2 \text{ m}} \quad \theta = 30.256^\circ$$

$$+\circlearrowleft (\sum M)_C = 0$$

$$0 = 2 \text{ kN} (0.6 \text{ m}) - F_1 [\cos 45^\circ (0.4 \text{ m}) - \sin 45^\circ (0.6 \text{ m})]$$

$$F_1 = 1.6971$$

$$+\circlearrowleft (\sum M)_B = 0$$

$$0 = 2 \text{ kN} (0.6 \text{ m}) + F_2 \cos \theta (1 \text{ m})$$

$$F_2 = -1.3892 \text{ kN}$$

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

$$F_2 + F_1 \sin 45^\circ - 2 \text{ kN} + 3 \text{ kN} + F_3 \sin \theta = 0$$

$$F_3 = -1.500 \text{ kN}$$

$$F_1 = 1.697 \text{ kN (T)}$$

$$F_2 = 1.500 \text{ kN (C)}$$

$$F_3 = 1.389 \text{ kN (C)}$$

Ans. (b)

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