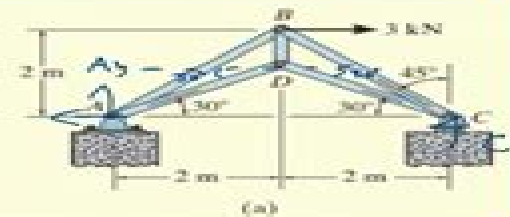


EXAMPLE 6.2

Determine the forces acting in all the members of the truss shown in Fig. 6-9a.

SOLUTION

By inspection, there are more than two unknowns at each joint. Consequently, the support reactions on the truss must first be determined. Show that they have been correctly calculated on the free-body diagram in Fig. 6-9b. We can now begin the analysis at joint C. Why?



sections or joint same place joints

1) Supports:

$$\sum F_x = 0: \quad -A_x + 3 = 0 \Rightarrow \boxed{A_x = 3 \text{ kN} \rightarrow}$$

$$\sum M_A = 0 = +3(2) - C(4) \Rightarrow \boxed{C = 1.5 \text{ kN} \uparrow}$$

$$\sum F_y = 0: \quad 1.5 + A_y = 0$$

$$A_y = -1.5 \text{ kN}$$

↓ reverse direction assumed

$$\boxed{A_y = 1.5 \text{ kN} \downarrow}$$

2) Using sections (only 3 needed) or 2 sections and 1 joint smarter



$$\sum F_x = 0 = -\frac{3}{1} + F_{AB} \sin 45 + F_{AD} \cos 30$$

$$\sum F_y = 0 = -\frac{1.5}{1} + F_{AB} \cos 45 + F_{AD} \sin 30$$

$$\begin{aligned} F_{AB} &= -0.776 \text{ kN} \\ F_{AD} &= 4.1 \text{ kN (T)} \end{aligned}$$

* $F_{AB} = 0.776 \text{ kN (C)}$

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IM Harris



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