

Problem #1

Determine the forces in the members of the roof truss shown.

Figure:



Reqd: F_{AB}
 F_{BC}
 F_{BD}
 F_{AC}
 F_{CD}

Solution w/ FBD:

Joint C



$$\sum F_V = 0$$

$$0 = -100 + F_{BC}$$

$$\underline{F_{BC} = 100 \text{ kN} \text{ (T)}} \text{ (1)}$$

$$\sum F_H = 0$$

$$0 = F_{BD} - F_{AC} \text{ (2)}$$

Joint A



$$\sum F_H = 0$$

$$0 = F_{AC} - F_{AB} \cos 30^\circ$$

$$F_{AC} = 100 \cos 30^\circ$$

$$\underline{F_{AC} = 50\sqrt{3} \text{ kN} \text{ (T)}} \text{ (3)}$$

$$\sum F_V = 0$$

$$0 = R_{Ay} - F_{AB} \sin 30^\circ$$

$$\underline{R_{Ay} = 50 \text{ kN}}$$

Joint B



$$\sum F_V = 0$$

$$0 = F_{BD} \sin 30^\circ + F_{BC} \sin 30^\circ - 100 \sin 30^\circ - 100$$

$$\underline{F_{BD} + F_{BC} = 200 \text{ (T)}} \text{ (4)}$$

$$\sum F_H = 0$$

$$0 = F_{AB} \cos 30^\circ - F_{CD} \cos 30^\circ + 100 \cos 30^\circ$$

$$\underline{-F_{AB} + F_{CD} = 100} \text{ (5)}$$

$$F_{AB} = F_{CD} - 100$$

Eq. (1)

$$\underline{F_{CD} = F_{AC}}$$

$$\underline{F_{CD} = 50\sqrt{3} \text{ kN} \text{ (T)}}$$

Eq. 2 & (3)

$$F_{BD} + (F_{CD} - 100) = 200 \text{ (150)}$$

$$2F_{BD} = 200 \text{ (150)} + 100$$

$$2F_{BD} = 300$$

$$\underline{F_{BD} = 150 \text{ kN} \text{ (C)}}$$

$$F_{AB} = 200 - 150$$

$$\underline{F_{AB} = 50 \text{ kN} \text{ (C)}}$$

Static Mechanics Solution

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