

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



$$\sum F_V = 0$$

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

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

$$\sum F_H = 0$$

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

Joint A



$$\sum F_H = 0$$

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

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

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

$$\sum F_V = 0$$

$$0 = R_A - F_{AB} \sin 30$$

$$R_A = 50 \text{ kN}$$

Joint B



$$\sum F_V = 0$$

$$0 = F_{BD} \sin 30 + F_{AB} \sin 30 - 100 \sin 30 - 100$$

$$F_{BD} + F_{AB} = \cos 30 (150) \text{ (4)}$$

$$\sum F_H = 0$$

$$0 = F_{AB} \cos 30 - F_{BD} \cos 30 + 100 \cos 30$$

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

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

Eq. (1)

$$F_{CD} = F_{AC}$$

$$F_{CD} = 50\sqrt{3} \text{ kN (6)}$$

Eq. 2 & (3)

$$F_{BD} + (F_{BD} - 100) = \cos 30 (150)$$

$$2F_{BD} = \cos 30 (150) + 100$$

$$2F_{BD} = 400$$

$$F_{BD} = 200 \text{ kN (c)}$$

$$F_{AB} = 200 - 100$$

$$F_{AB} = 100 \text{ kN (c)}$$

# Engineering Statics Problem Solutions

**Roy R. Craig, Jr., Eric M. Taleff**



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