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***6-1.** Determine the force in each member of the truss, and state if the members are in tension or compression.



Method of Joints: We will begin by analyzing the equilibrium of joint *D*, and then proceed to analyze joints *C* and *E*.

Joint *D*: From geometry, $\theta = \tan^{-1}\left(\frac{1}{2}\right) = 26.57^\circ$. Thus, from the free-body diagram in Fig. *a*,

$$\begin{aligned} \sum F_x = 0; \quad 600 - F_{DC} \sin 26.57^\circ &= 0 & \text{Ans.} \\ F_{DC} &= 1341.64 \text{ N} = 1.34 \text{ kN (C)} \\ + \uparrow \sum F_y = 0; \quad 1341.64 \cos 26.57^\circ - F_{DE} &= 0 & \text{Ans.} \\ F_{DE} &= 1200 \text{ N} = 1.20 \text{ kN (T)} \end{aligned}$$

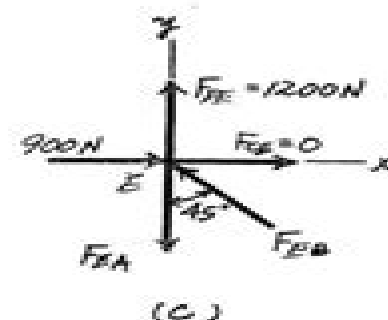
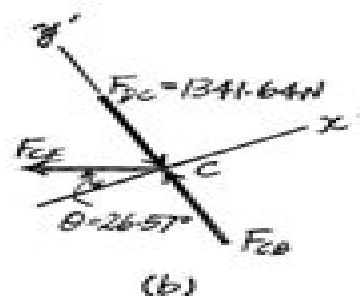
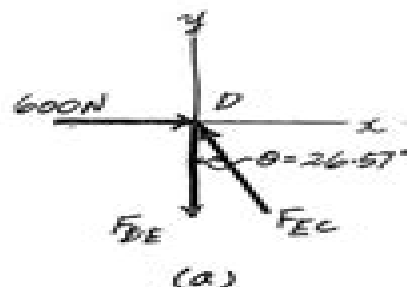
Joint *C*: From the free-body diagram in Fig. *b*,

$$\begin{aligned} + \nearrow \sum F_{x'} = 0; \quad -F_{CE} \cos 26.57^\circ &= 0 & \text{Ans.} \\ F_{CE} &= 0 \\ + \nearrow \sum F_{y'} = 0; \quad F_{CB} - 1341.64 &= 0 & \text{Ans.} \\ F_{CB} &= 1341.64 \text{ N} = 1.34 \text{ kN (C)} \end{aligned}$$

Joint *E*: From the free-body diagram in Fig. *c*,

$$\begin{aligned} \sum F_x = 0; \quad 900 - F_{EB} \sin 45^\circ &= 0 & \text{Ans.} \\ F_{EB} &= 1272.79 \text{ N} = 1.27 \text{ kN (C)} \\ + \uparrow \sum F_y = 0; \quad 1200 + 1272.79 \cos 45^\circ - F_{EA} &= 0 & \text{Ans.} \\ F_{EA} &= 2090 \text{ N} = 2.09 \text{ kN (T)} \end{aligned}$$

Note: The equilibrium analysis of joint *A* can be used to determine the components of support reaction at *A*.



Engineering Mechanics Statics And Dynamics Problems And Solutions

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