

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

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

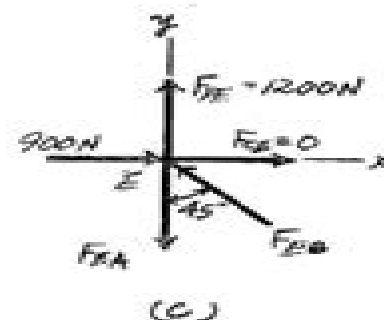
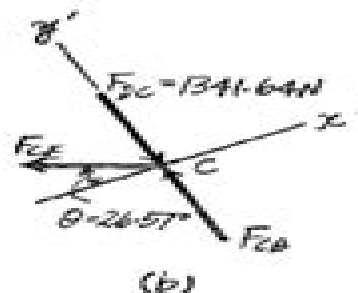
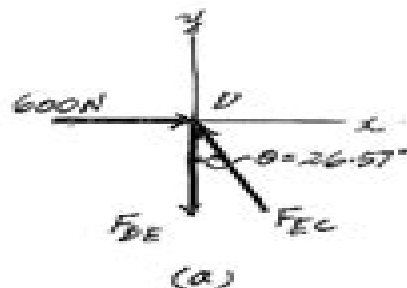
Joint C: From the free-body diagram in Fig. b,

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

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

$$\begin{aligned} \sum F_x = 0; \quad 900 - F_{EB} \sin 45^\circ &= 0 & \text{Ans.} \\ F_{EB} &= 1272.79 \text{ N} = 1.27 \text{ kN (C)} \\ + \uparrow \sum F_y = 0; \quad 1200 + 1272.79 \cos 45^\circ - F_{EA} &= 0 & \text{Ans.} \\ F_{EA} &= 2100 \text{ N} = 2.10 \text{ kN (T)} \end{aligned}$$

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



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Chapter 6

Y Pai



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