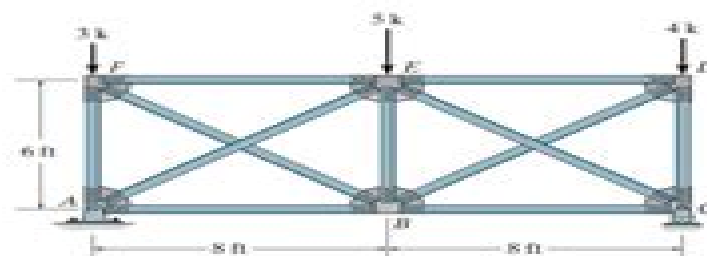


12-1. Determine (approximately) the force in each member of the truss. Assume the diagonals can support either a tensile or a compressive force.



SOLUTION

Support Reactions Referring to Fig. *a*,

$$\downarrow + \Sigma M_A = 0; \quad N_C(16) - 5(8) - 4(16) = 0 \quad N_C = 6.50 \text{ k}$$

$$\downarrow + \Sigma M_C = 0; \quad 5(8) + 3(16) - A_y(16) = 0 \quad A_y = 5.50 \text{ k}$$

$$\rightarrow \Sigma F_x = 0; \quad A_x = 0$$

Method of Sections. It is required that $F_{BF} = F_{AE} = F_1$. Referring to Fig. *b*,

$$+ \uparrow \Sigma F_y = 0; \quad 5.50 - 3 - 2F_1\left(\frac{3}{5}\right) = 0 \quad F_1 = 2.083 \text{ k}$$

Therefore,

$$F_{BF} = 2.08 \text{ k (T)} \quad F_{AE} = 2.08 \text{ k (C)}$$

$$\downarrow + \Sigma M_A = 0; \quad F_{ED}(6) - 2.083\left(\frac{4}{5}\right)(6) = 0 \quad F_{ED} = 1.667 \text{ k (C)} = 1.67 \text{ k (C)}$$

$$\downarrow + \Sigma M_E = 0; \quad F_{AD}(6) - 2.083\left(\frac{4}{5}\right)(6) = 0 \quad F_{AD} = 1.667 \text{ k (T)} = 1.67 \text{ k (T)}$$

Also, $F_{BD} = F_{CE} = F_2$. Referring to Fig. *c*,

$$+ \uparrow \Sigma F_y = 0; \quad 6.50 - 4 - 2F_2\left(\frac{3}{5}\right) = 0 \quad F_2 = 2.083 \text{ k}$$

Therefore,

$$F_{BD} = 2.08 \text{ k (T)} \quad F_{CE} = 2.08 \text{ k (C)}$$

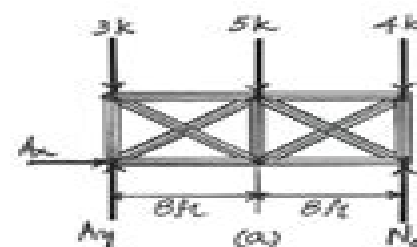
$$\downarrow + \Sigma M_C = 0; \quad 2.083\left(\frac{4}{5}\right)(6) - F_{DE}(6) = 0 \quad F_{DE} = 1.667 \text{ k (C)} = 1.67 \text{ k (C)}$$

$$\downarrow + \Sigma M_D = 0; \quad 2.083\left(\frac{4}{5}\right)(6) - F_{BC}(6) = 0 \quad F_{BC} = 1.667 \text{ k (T)} = 1.67 \text{ k (T)}$$

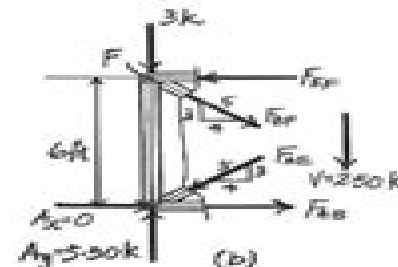
Method of Joints.

Joint A, Fig. *d*.

$$+ \uparrow \Sigma F_y = 0; \quad 5.50 - 2.083\left(\frac{3}{5}\right) - F_{AF} = 0 \quad F_{AF} = 4.25 \text{ k (C)}$$



Ans.



Ans.

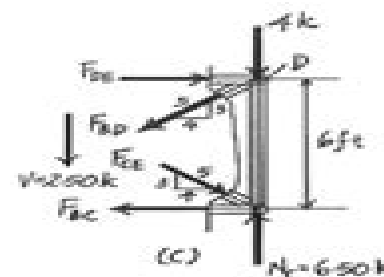
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JL Elias



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