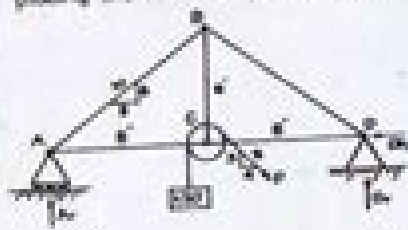


404) Determine the force in each bar of the truss shown in Fig P-404 caused by lifting the 100-lb load at constant velocity of 2 ft per sec. What change in these forces, if any, results from placing the roller support of D to the hinge support of A?



$$\sum F_x = 0$$

$$A_x = D_x = 100 \text{ lbs (100)}$$

but $A_x = D_x$

$$\therefore 2D_x = 100 \text{ lbs (100)}$$

$$2D_x = 100$$

$$D_x = 50 \text{ lbs} = A_x$$

Interchanging hinge & roller support will not change the forces in each bar except for AC & CD

$$AC = 90 \text{ lbs (100)}$$

$$= 90 \text{ lbs (tension)}$$

$$CD = 80 \text{ lbs (100)}$$

$$= 80 \text{ lbs (tension)}$$



$$AC = 180 \text{ lbs (tension)}$$

$$AB = 160 \text{ lbs (compression)}$$



$$DE = 160 \text{ lbs (compression)}$$

$$CD = 80 \text{ lbs (100)} - D_x$$

but $D_x = 50 \text{ lbs}$

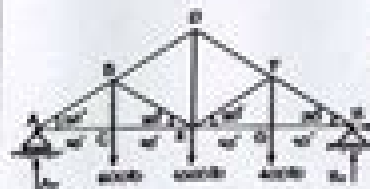
$$\therefore CD = 30 \text{ lbs (tension)}$$

of C: $\sum F_y = 0$

$$A_x + D_x = BC$$

$$BC = 100 \text{ lbs (tension)}$$

405) Determine the force in members AB, BC, BE, & DE of the Howe roof truss shown in Fig P-405.



$$\sum M_A = 0$$

$$A_x(+6) - 1000(6) - 1000(12) - 1000(18) = 0$$

$$A_x = 1000 \text{ lbs}$$

$$\sum M_F = 0$$

$$B_x(+6) - 1000(6) - 1000(12) - 1000(18) = 0$$

$$B_x = 950 \text{ lbs}$$



$$\therefore AB = 1000 \text{ lbs (compression)}$$

$$AC = 1650 \text{ lbs (tension)}$$



$$BD + BE \cos 60^\circ + 1000 \cos 60^\circ = 1000$$

$$BD + 1000 \text{ lbs (compression)} = 1000$$

$$BD = 0$$

406) Determine the force in each member of the Pratt roof truss shown in Fig P-406.



$$\sum M_A = 0$$

$$1000(6) + 1000(12) = 1000(18) = A_x(18)$$

$$A_x = 1000 \text{ lbs}$$



$$\therefore AB = 1000 \text{ lbs} \rightarrow C + FB$$

$$AC = 1000 \text{ lbs} \rightarrow T$$

$$\therefore CD = 742.38 \text{ lbs} \rightarrow T + DG$$

$$\sum F_x = 0$$

$$AC = \frac{5}{3} DG + CE$$

$$CE = 1000 - \frac{5}{3} DG + (742.38)$$

$$CE = 1000 - 1400 \text{ lbs} \rightarrow T$$

$$DE = 0$$

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