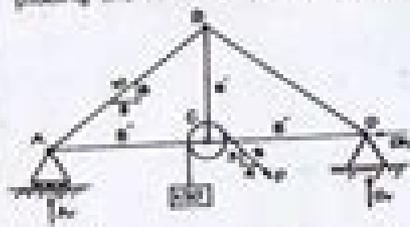


405.) Determine the force in each bar of the truss shown in Fig P-405 caused by lifting the 100-lb load at constant velocity of 2 ft per sec. What change in these forces, if any, results from placing the roller support at D, the hinge support at A?



$$\sum F_x = 0$$

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

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

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

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

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

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



$$\frac{90}{4} = \frac{AC}{4} = \frac{AB}{5}$$

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

$$AB = 125 \text{ lbs (compression)}$$



$$\frac{90}{4} = \frac{BD}{4}$$

$$BD = 90 \text{ lbs (compression)}$$

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

but $D_x = 50 \text{ lbs}$

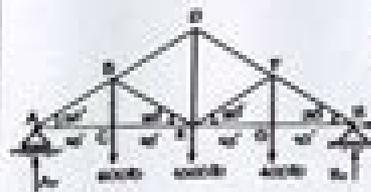
$$\therefore CD = 30 \text{ lbs (tension)}$$

at C: $\sum F_y = 0$

$$A_y = D_y = 100$$

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

406.) Determine the force in members AB, BD, BE, & DE of the Howe roof truss shown in Fig P-406.



$$\sum M_A = 0$$

$$A_y(+4) - 1000(8) - 1000(12) - 400(16) = 0$$

$$A_y = 1050 \text{ lbs}$$

$$\sum M_E = 0$$

$$E_x(+4) - 1000(8) - 1000(12) - 400(16) = 0$$

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

at A:



$$\therefore AB = 1100 \text{ lbs (compression)}$$

$$AC = 1050 \text{ lbs (tension)}$$



$$\sum F_y = 0$$

$$BE \sin 60^\circ - 400 \sin 60^\circ = 0$$

$$BE = 400 \text{ lbs (compression)}$$

$$BD + BE \cos 60^\circ + 400 \cos 60^\circ = 1050$$

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

407.) Determine the force in each member of the Pratt roof truss shown in Fig P-407.



at B:

using New Axes,
 $\sum F_y = 0$, $BC = 1000 \text{ lbs} \rightarrow C + F_B$
 in the original axes
 $AB - BC - DF = 4000 \text{ lbs} \rightarrow C$

at C:



$$\therefore CD = 2143.33 \text{ lbs} \rightarrow T + D_G$$

$$\sum F_x = 0$$

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

$$CE = 1000 - \frac{5}{3} D_G \text{ (2143.33)}$$

$$CE = 1000 - 3460 \text{ lbs} \rightarrow T$$

$$DE = 0$$

$$\sum M_A = 0$$

$$1000(8) + 1000(12) + 400(16) = 1000(8)$$

$$A_x = 1100 \text{ lbs}$$

at A:



$$\frac{A_x}{4} = \frac{AB}{5} = \frac{AC}{4}$$

$$\therefore AB = 1100 \text{ lbs} \rightarrow C + F_B$$

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

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