408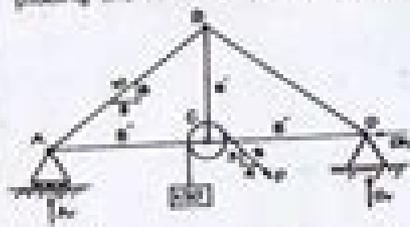) Determine the force in each bar of the truss shown in Fig P-408 caused by lifting the 150-lb load at constant velocity of 8 ft per sec. What change in these forces, if any, results from placing the roller support at D & the hinge support at A?

$\Sigma F_y = 0$

$A_v + D_v = 150 + A/s \,(150)$

but $A_v = D_v$

$\therefore 2 D_v = 150 + A/s\,(150)$

$2 D_v = 192$

$D_v = 96\ \text{lb} = A_v$

of A:

$\dfrac{AB}{5} = \dfrac{AC}{4} = \dfrac{96}{3}$

$AC = 128\ \text{lb (tension)}$

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

of D:

$\dfrac{96}{3} = \dfrac{BD}{5}$

$BD = 160\ \text{lb (compression)}$

$CD = BD\,(4/5) - Dh$

but $Dh = 96\ \text{lb}$

$\therefore CD = 32\ \text{lb (tension)}$

of C: $\Sigma F_y = 0$

$A_v + D_v = BC$

$BC = 192\ \text{lb (tension)}$

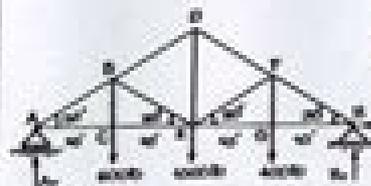Interchanging hinge & roller support will not change the forces in each bar except for AC & CD

$AC = 96 + 4/5\,(AB)$
$= 224\ \text{lb (tension)}$

$CD = BD\,(4/5)$
$= 128\ \text{lb (tension)}$

---

409) Determine the force in members AB, BD, BE, & DE of the Howe roof truss shown in Fig P-409.

$\Sigma M_B = 0$

$A_v(40) - 600(30) - 1000(20) - 400(10) = 0$

$A_v = 1050\ \text{lb}$

$\Sigma M_A = 0$

$E_v(40) - 400(30) - 1000(20) - 600(10) = 0$

$E_v = 950\ \text{lb}$

of A:

$\dfrac{AB}{\sin} = \dfrac{AC}{\sin} = \dfrac{A_v}{\sin} = \dfrac{1050}{\sin}$

$\therefore AB = 2100\ \text{lb (compression)}$

$AC = 1820\ \text{lb (tension)}$

of E:

$\Sigma F_x = 0$

$BE \cos - 400(\sin) = 0$

$BE = 600\ \text{lb (compression)}$

$\Sigma F_y = 0$

$BD + BE \cos + 400(\cos) = 1050$

$BD = 1500\ \text{lb (compression)}$

---

410) Determine the force in each member of the Pratt roof truss shown in Fig P-410.

$\Sigma M_A = 0$, $1600(24) + 1600(4) + 1600(8) = A_v(36)$

$A_v = 2400\ \text{lb}$

of A:

$\dfrac{A_v}{5} = \dfrac{AB}{5} = \dfrac{AC}{4}$

$\therefore AB = 4000\ \text{lb} ---C = FH$

$AC = GH = 3200\ \text{lb} ---T$

of B:

using new Axes,
$\Sigma F_y = 0$; $BC = 1600\ \text{lb} = FG$
in the original axes
$AB = BD = DF = 4000\ \text{lb} ---C$

of C:

$\dfrac{BC}{5} = \dfrac{CD}{??}$

$\therefore CD = 1163.33\ \text{lb} ---T = DG$

$\Sigma F_x = 0$

$AC = 5/5\,CD + CE$

$CE = 3200 - 5/5\,(1163.33)$

$CE = EG = 2400\ \text{lb} ---T$

$DE = 0$

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