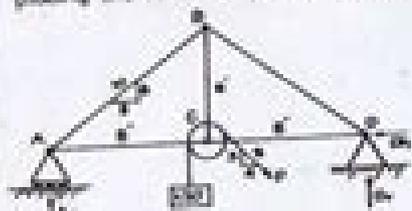406) Determine the force in each bar of the truss shown in Fig P-406 caused by lifting the 120-lb load at constant velocity of 8 ft per sec. What change in these forces, if any, results from placing the roller support at D & the hinge support at A?

$\Sigma F_y = 0$

$A_v + D_v = 120 + 4/5 (120)$

but $A_v = D_v$

$\therefore 2 D_v = 120 + 4/5 (120)$

$2 D_v = 192$

$D_v = 96$ lb $= A_v$

at A:

$\frac{96}{6} = \frac{AC}{8} = \frac{AB}{10}$

AC = 128 lb (tension)
AB = 160 lb (compression)

at D:

$\frac{96}{6} = \frac{BD}{10}$

BD = 160 lb (compression)

CD = BD(4/5) - Dh

but Dh = 96 lb

$\therefore$ CD = 32 lb (tension)

at C: $\Sigma F_y = 0$

$A_v + D_v = BC$

BC = 192 lb (tension)

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

AC = 96 + 4/5 (AB)
= 224 lb (tension)

CD = BD(4/5)
= 128 lb (tension)

409) Determine the force in members AB, BD, BE, & DE of the Howe roof truss shown in Fig P-409.
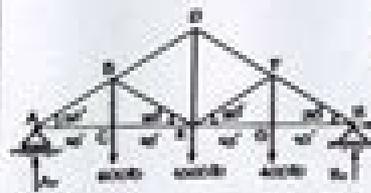
$\Sigma M_B = 0$

$A_v (48) - 400(36) - 1000(24) - 400(12) = 0$

$A_v = 1050$ lb.

$\Sigma M_A = 0$

$R_v (48) - 400(36) - 1000(24) - 400(12) = 0$

$R_v = 1050$ lb.

at A:

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

$\therefore$ AB = 2100 lb (compression)
AC = 1820 lb (tension)

at E:

$\Sigma F_y = 0$

BE cos θ - 400(sin θ) = 0

BE = 600 lb (compression)

$\Sigma F_x = 0$

BD + BE cos θ + 400 (cos θ) = 2100

BD = 1500 lb (compression)

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

$\Sigma M_A = 0$, 1800(24) + 1800(48) = 1800(8) + R_v (96)

$A_v = 2700$ lb.

at A.

$\frac{A_v}{6} = \frac{AB}{8} = \frac{AC}{6}$

$\therefore$ AB = 4500 lb ---- C = FH

AC = GH = 3600 lb ---- T

at B, using new Axes,

$\Sigma F_y = 0$; BC = 1800 lb = FG

in the original axes

AB = BD + DF = 4500 lb ---- C

at C:

$\frac{BC}{8} = \frac{CD}{10}$

$\therefore$ CD = 1968.33 lb ---- T = DG

$\Sigma F_y = 0$

AC = 5/6 CD + CE

CE = 3600 - 5/6 (1968.33)

CE = EG = 2400 lb ---- T

DE = 0

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