

STATICS 2D - # 1

3-5.5. Determine the forces P , F , and T required to keep the triangular frame ABC shown in Fig. P-3-5.5 in equilibrium.

$P = 6330 \text{ lb}$; $F = 722 \text{ lb}$; $T = 5400 \text{ lb}$

Ans.

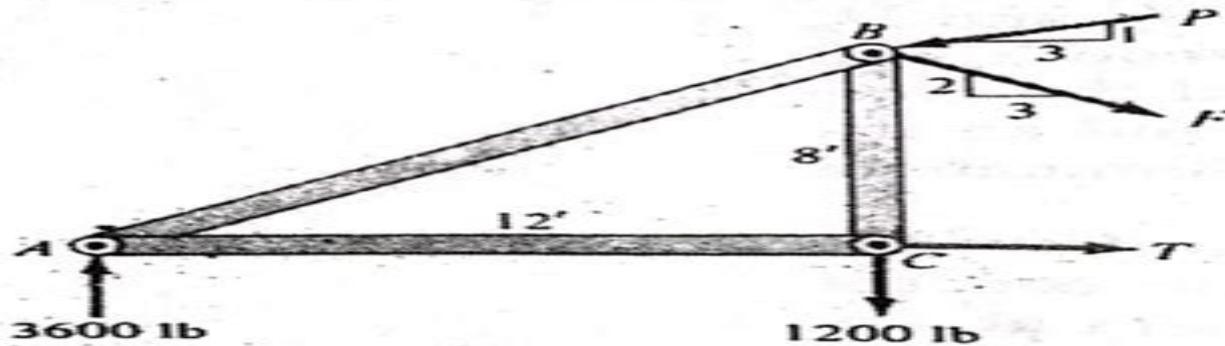
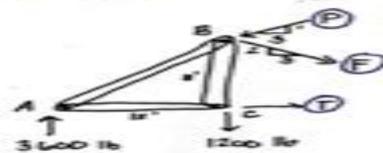


Figure P-3-5.5

STATICS 2D

d)



$$\sum M_B = 0$$

$$3600(12) - T(8) = 0$$

$$T = 5400 \text{ lb}$$

$$\sum F_x = 0$$

$$-P\left(\frac{3}{10}\right) + F\left(\frac{3}{13}\right) + T = 0$$

$$\sum F_y = 0$$

$$-P\left(\frac{1}{10}\right) - F\left(\frac{2}{13}\right) + 3600 - 1200 = 0$$

$$\text{Eq. 1: } -P\left(\frac{3}{10}\right) + F\left(\frac{3}{13}\right) = -5400$$

$$\text{Eq. 2: } -P\left(\frac{1}{10}\right) - F\left(\frac{2}{13}\right) = -2400$$

Simultaneous Solving:

$$P = 6324.56 \text{ lb} \approx 6330 \text{ lb}$$

$$F = 721.11 \text{ lb} \approx 722 \text{ lb}$$

$P = ?$
 $F = ?$
 $T = ?$

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