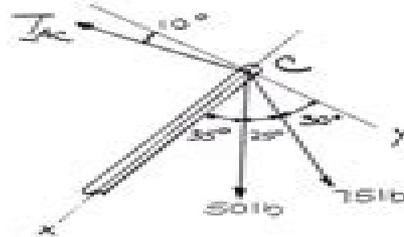


PROBLEM 2.41

Determine (a) the required tension in cable AC , knowing that the resultant of the three forces exerted at Point C of boom BC must be directed along BC , (b) the corresponding magnitude of the resultant.

SOLUTION



Using the x and y axes shown:

$$R_x = \Sigma F_x = T_{AC} \sin 10^\circ + (50 \text{ lb}) \cos 35^\circ + (75 \text{ lb}) \cos 60^\circ \\ = T_{AC} \sin 10^\circ + 78.458 \text{ lb} \quad (1)$$

$$R_y = \Sigma F_y = (50 \text{ lb}) \sin 35^\circ + (75 \text{ lb}) \sin 60^\circ - T_{AC} \cos 10^\circ \\ R_y = 93.631 \text{ lb} - T_{AC} \cos 10^\circ \quad (2)$$

(a) Set $R_y = 0$ in Eq. (2):

$$93.631 \text{ lb} - T_{AC} \cos 10^\circ = 0 \\ T_{AC} = 95.075 \text{ lb} \quad T_{AC} = 95.1 \text{ lb} \blacktriangleleft$$

(b) Substituting for T_{AC} in Eq. (1):

$$R_x = (95.075 \text{ lb}) \sin 10^\circ + 78.458 \text{ lb} \\ = 94.968 \text{ lb} \\ R = R_x \quad R = 95.0 \text{ lb} \blacktriangleleft$$

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