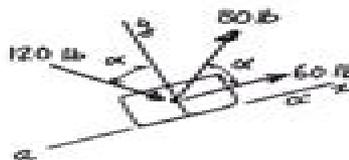


PROBLEM 2.42

For the block of Problems 2.37 and 2.38, determine (a) the required value of α if the resultant of the three forces shown is to be parallel to the incline, (b) the corresponding magnitude of the resultant.

SOLUTION



Select the x axis to be along a' .

Then

$$R_x = \Sigma F_x = (60 \text{ lb}) + (80 \text{ lb})\cos\alpha + (120 \text{ lb})\sin\alpha \quad (1)$$

and

$$R_y = \Sigma F_y = (80 \text{ lb})\sin\alpha - (120 \text{ lb})\cos\alpha \quad (2)$$

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

$$(80 \text{ lb})\sin\alpha - (120 \text{ lb})\cos\alpha = 0$$

Dividing each term by $\cos\alpha$ gives:

$$(80 \text{ lb})\tan\alpha = 120 \text{ lb}$$

$$\tan\alpha = \frac{120 \text{ lb}}{80 \text{ lb}}$$

$$\alpha = 56.310^\circ$$

$$\alpha = 56.3^\circ \blacktriangleleft$$

(b) Substituting for α in Eq. (1) gives:

$$R_x = 60 \text{ lb} + (80 \text{ lb})\cos 56.31^\circ + (120 \text{ lb})\sin 56.31^\circ = 204.22 \text{ lb} \quad R_x = 204 \text{ lb} \blacktriangleleft$$

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