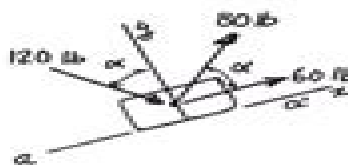


### PROBLEM 2.42

For the block of Problems 2.37 and 2.38, determine (a) the required value of  $\alpha$  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  $a$  or  $a'$ .

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:

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

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

$$\alpha = 56.310^\circ$$

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

(b) Substituting for  $\alpha$  in Eq. (1) gives:

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

$$R_x = 204\text{ lb} \quad \blacktriangleleft$$

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