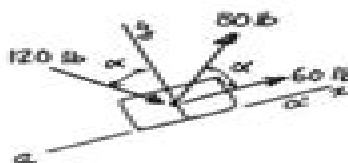


### PROBLEM 2.42

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  $a a'$ .

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:

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

# Solution Manual Vector Statics Beer Johnston

**Ferdinand Pierre Beer, Elwood Russell  
Johnston**



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