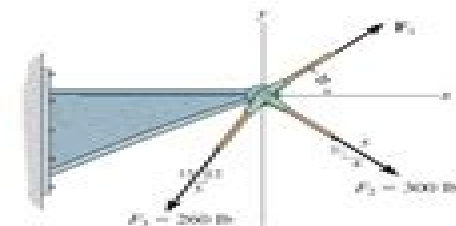


•2-45. If the resultant force acting on the bracket is to be directed along the positive x axis and the magnitude of F_1 is required to be a minimum, determine the magnitudes of the resultant force and F_1 .



Rectangular Components By referring to Figs. a and b , the x and y components of F_1 , F_2 , F_3 , and F_R can be written as

$$\begin{aligned}(F_1)_x &= F_1 \cos \phi & (F_1)_y &= F_1 \sin \phi \\(F_2)_x &= 300 \left(\frac{4}{5} \right) = 240 \text{ lb} & (F_2)_y &= 300 \left(\frac{3}{5} \right) = 180 \text{ lb} \\(F_3)_x &= 200 \left(\frac{3}{5} \right) = 120 \text{ lb} & (F_3)_y &= 200 \left(\frac{4}{5} \right) = 160 \text{ lb} \\(F_R)_x &= F_R & (F_R)_y &= 0\end{aligned}$$

Resultant Force: Summing the force components algebraically along the x and y axes,

$$\begin{aligned}+\uparrow \Sigma (F_R)_y &= \Sigma F_y: 0 = F_1 \sin \phi - 180 - 160 \\F_1 &= \frac{340}{\sin \phi} \quad (1)\end{aligned}$$

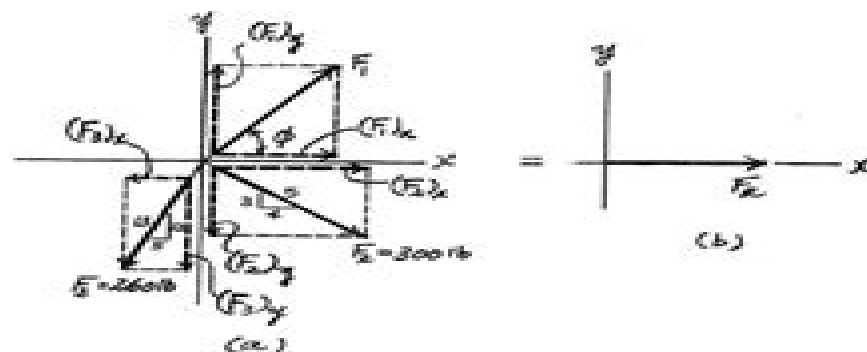
$$+\rightarrow \Sigma (F_R)_x = \Sigma F_x: F_R = F_1 \cos \phi + 240 + 120 \quad (2)$$

By inspecting Eq. (1), we realize that F_1 is minimum when $\sin \phi = 1$ or $\phi = 90^\circ$. Thus,

$$F_1 = 340 \text{ lb} \quad \text{Ans.}$$

Substituting these results into Eq. (2), yields

$$F_R = 140 \text{ lb} \quad \text{Ans.}$$



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