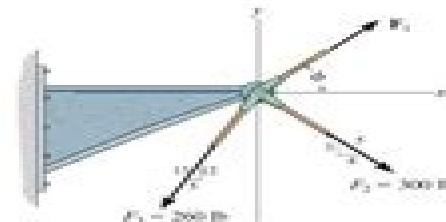


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- 2-45. If the resultant force acting on the bracket is to be directed along the positive x axis and the magnitude of F_1 is required to be a minimum, determine the magnitudes of the resultant force and F_1 .



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:

$$(F_1)_{1x} = F_1 \cos \phi$$

$$(F_2)_{1x} = 300 \left(\frac{4}{5} \right) = 240 \text{ lb}$$

$$(F_3)_{1x} = 200 \left(\frac{3}{5} \right) = 120 \text{ lb}$$

$$(F_R)_{1x} = F_R$$

$$(F_1)_{1y} = F_1 \sin \phi$$

$$(F_2)_{1y} = 300 \left(\frac{3}{5} \right) = 180 \text{ lb}$$

$$(F_3)_{1y} = 200 \left(\frac{4}{5} \right) = 160 \text{ lb}$$

$$(F_R)_{1y} = 0$$

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

$$+ \Sigma F_x: (F_R)_{1x} = \Sigma F_{1x}; \quad 0 = F_1 \sin \phi - 180 - 240 \quad (1)$$

$$F_1 = \frac{420}{\sin \phi}$$

$$+ \Sigma F_y: (F_R)_{1y} = \Sigma F_{1y}; \quad F_R = F_1 \cos \phi + 120 - 160 \quad (2)$$

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

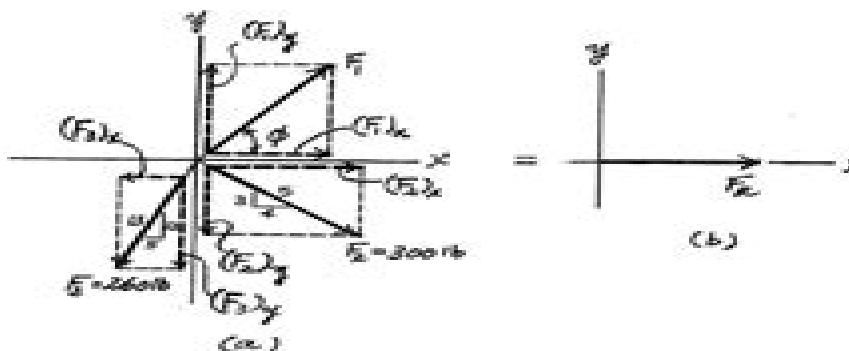
$$F_1 = 420 \text{ lb}$$

Ans.

Substituting these results into Eq. (2), yields

$$F_R = 140 \text{ lb}$$

Ans.



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