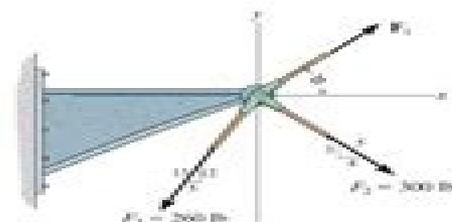


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•2-45. If the resultant force acting on the bracket is to be directed along the positive  $x$  axis and the magnitude of  $F_1$  is required to be a minimum, determine the magnitudes of the resultant force and  $F_1$ .



**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

$$\begin{aligned} (F_1)_x &= F_1 \cos \phi & (F_1)_y &= F_1 \sin \phi \\ (F_2)_x &= 300 \left( \frac{4}{5} \right) = 240 \text{ lb} & (F_2)_y &= 300 \left( \frac{3}{5} \right) = 180 \text{ lb} \\ (F_3)_x &= 260 \left( \frac{2}{13} \right) = 100 \text{ lb} & (F_3)_y &= 260 \left( \frac{12}{13} \right) = 240 \text{ lb} \\ (F_R)_x &= F_R & (F_R)_y &= 0 \end{aligned}$$

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

$$\begin{aligned} + \uparrow \Sigma (F_R)_y = \Sigma F_y: \quad 0 &= F_1 \sin \phi - 180 - 240 \\ F_1 &= \frac{420}{\sin \phi} \end{aligned} \tag{1}$$

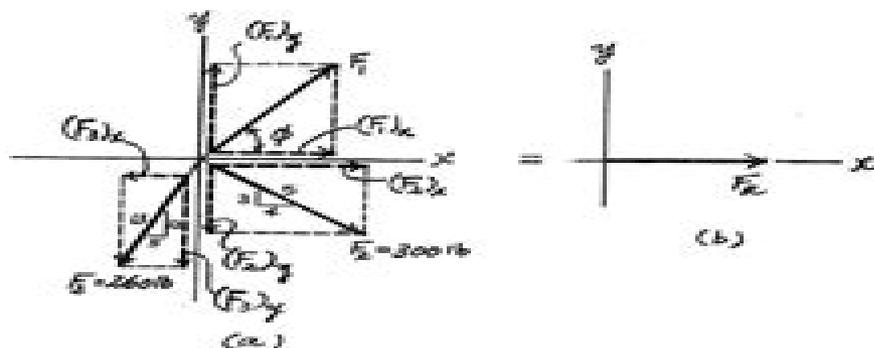
$$\rightarrow \Sigma (F_R)_x = \Sigma F_x: \quad F_R = F_1 \cos \phi + 240 + 100 \tag{2}$$

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

$$F_1 = 420 \text{ lb} \quad \text{Ans.}$$

Substituting these results into Eq. (2), yields

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



# Engineering Mechanics 12th Edition Solutions

**N Noddings**



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