

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 minimum, determine the magnitudes of the resultant force and F_R .

SOLUTION

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

$$(F_1)_x = F_1 \cos \phi \quad (F_1)_y = F_1 \sin \phi$$

$$(F_2)_x = 650 \left(\frac{3}{5} \right) = 390 \text{ N} \quad (F_2)_y = 650 \left(\frac{4}{5} \right) = 520 \text{ N}$$

$$(F_3)_x = 500 \cos 45^\circ = 353.55 \text{ N} \quad (F_3)_y = 500 \sin 45^\circ = 353.55 \text{ N}$$

$$(F_R)_x = F_R \cos 45^\circ = 0.7071 F_R \quad (F_R)_y = F_R \sin 45^\circ = 0.7071 F_R$$

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

$$\stackrel{+}{\rightarrow} \sum (F_R)_x = \sum F_{xi} \quad 0.7071 F_R = F_1 \cos \phi + 390 + 353.55 \quad (1)$$

$$\stackrel{+}{\uparrow} \sum (F_R)_y = \sum F_{yi} \quad 0.7071 F_R = F_1 \sin \phi + 520 - 353.55 \quad (2)$$

Eliminating F_R from Eqs. (1) and (2), yields

$$F_1 = \frac{202.89}{\cos \phi - \sin \phi} \quad (3)$$

The first derivative of Eq. (3) is

$$\frac{dF_1}{d\phi} = \frac{\sin \phi + \cos \phi}{(\cos \phi - \sin \phi)^2} \quad (4)$$

The second derivative of Eq. (3) is

$$\frac{d^2F_1}{d\phi^2} = \frac{2(\sin \phi + \cos \phi)^2}{(\cos \phi - \sin \phi)^3} + \frac{1}{\cos \phi - \sin \phi} \quad (5)$$

For F_1 to be minimum, $\frac{dF_1}{d\phi} = 0$. Thus, from Eq. (4)

$$\sin \phi + \cos \phi = 0$$

$$\tan \phi = -1$$

$$\phi = -45^\circ$$

Substituting $\phi = -45^\circ$ into Eq. (5), yields

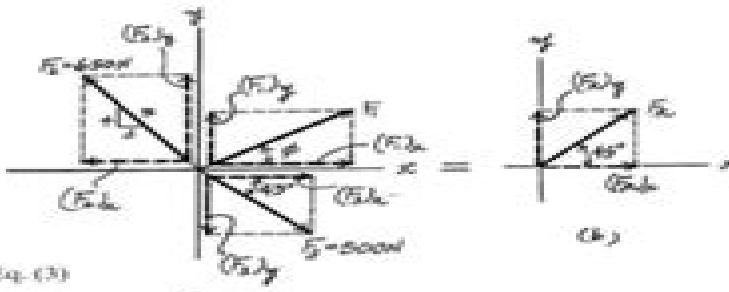
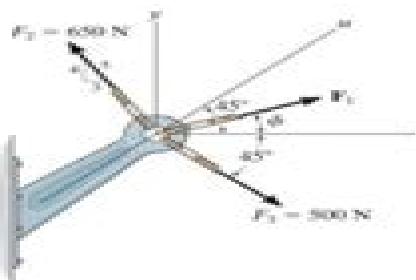
$$\frac{d^2F_1}{d\phi^2} = 0.7071 > 0$$

This shows that $\phi = -45^\circ$ indeed produces minimum F_1 . Thus, from Eq. (3)

$$F_1 = \frac{202.89}{\cos(-45^\circ) - \sin(-45^\circ)} = 143.47 \text{ N} = 143 \text{ N} \quad \text{Ans.}$$

Substituting $\phi = -45^\circ$ and $F_1 = 143.47 \text{ N}$ into either Eq. (1) or Eq. (2), yields

$$F_R = 91.9 \text{ N} \quad \text{Ans.}$$



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