

2-44.

The magnitude of the resultant force acting on the bracket is to be 400 N. Determine the magnitude of F_1 if $\phi = 30^\circ$.

SOLUTION

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

$$(F_1)_x = F_1 \cos 30^\circ = 0.8660F_1 \quad (F_1)_y = F_1 \sin 30^\circ = 0.5F_1$$

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

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

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

$$\begin{aligned} \rightarrow \Sigma(F_R)_x &= \Sigma F_x & (F_R)_x &= 0.8660F_1 - 390 + 353.55 \\ & & &= 0.8660F_1 - 36.45 \\ + \uparrow \Sigma(F_R)_y &= \Sigma F_y & (F_R)_y &= 0.5F_1 + 520 - 353.55 \\ & & &= 0.5F_1 + 166.45 \end{aligned}$$

Since the magnitude of the resultant force is $F_R = 400$ N, we can write

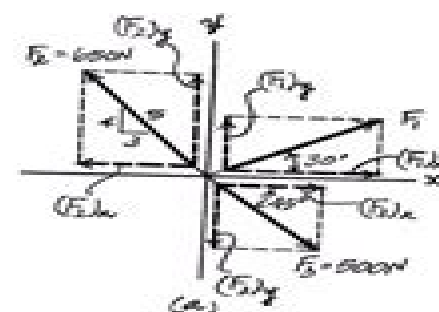
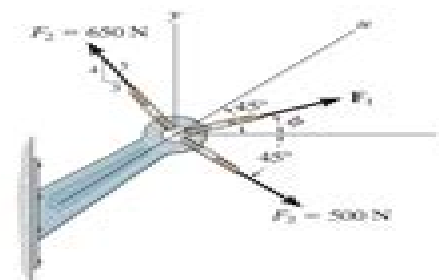
$$\begin{aligned} F_R &= \sqrt{(F_R)_x^2 + (F_R)_y^2} \\ 400 &= \sqrt{(0.8660F_1 - 36.45)^2 + (0.5F_1 + 166.45)^2} \\ F_1^2 + 103.32F_1 - 130967.17 &= 0 \end{aligned}$$

Ans.

Solving,

$$F_1 = 314 \text{ N} \quad \text{or} \quad F_1 = -417 \text{ N} \quad \text{Ans.}$$

The negative sign indicates that $F_1 = 417$ N must act in the opposite sense to that shown in the figure.



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