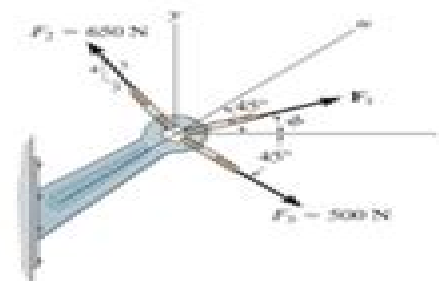


2-46.

If the magnitude of the resultant force acting on the bracket is 600 N, directed along the positive x axis, determine the magnitude of F and its direction ϕ .



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

$$(F_1)_x = F_1 \cos \phi$$

$$(F_1)_y = F_1 \sin \phi$$

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

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

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

$$(F_R)_x = 600 \cos 45^\circ = 424.26 \text{ N} \quad (F_R)_y = 600 \sin 45^\circ = 424.26 \text{ N}$$

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

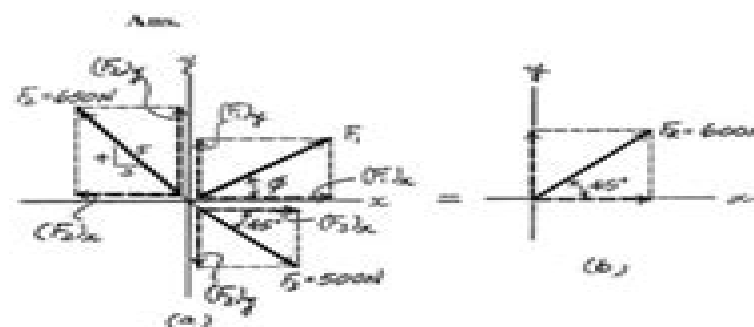
$$\begin{aligned} \rightarrow \Sigma (F_R)_x &= \Sigma F_{x,i} & 424.26 &= F_1 \cos \phi - 390 + 353.55 & (1) \\ & & F_1 \cos \phi &= 460.71 \end{aligned}$$

$$\begin{aligned} + \uparrow \Sigma (F_R)_y &= \Sigma F_{y,i} & 424.26 &= F_1 \sin \phi + 520 - 353.55 & (2) \\ & & F_1 \sin \phi &= 257.82 \end{aligned}$$

Solving Eqs. (1) and (2), yields

$$\phi = 29.2^\circ$$

$$F_1 = 528 \text{ N}$$



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