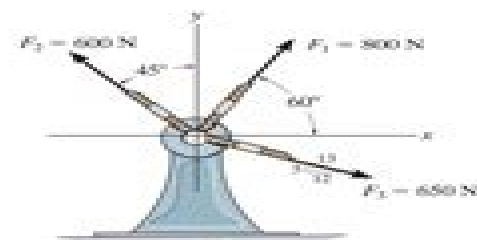


2-40.

Determine the magnitude of the resultant force and its direction θ , measured counterclockwise from the positive x axis.



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

$$(F_1)_x = 800 \cos 60^\circ = 400 \text{ N} \quad (F_1)_y = 800 \sin 60^\circ = 692.82 \text{ N}$$

$$(F_2)_x = 600 \sin 45^\circ = 424.26 \text{ N} \quad (F_2)_y = 600 \cos 45^\circ = 424.26 \text{ N}$$

$$(F_3)_x = 650 \left(\frac{12}{13} \right) = 600 \text{ N} \quad (F_3)_y = 650 \left(\frac{5}{13} \right) = 250 \text{ N}$$

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

$$\rightarrow \Sigma (F_R)_x = \Sigma F_{ix} \quad (F_R)_x = 400 - 424.26 + 600 = 575.74 \text{ N} \rightarrow$$

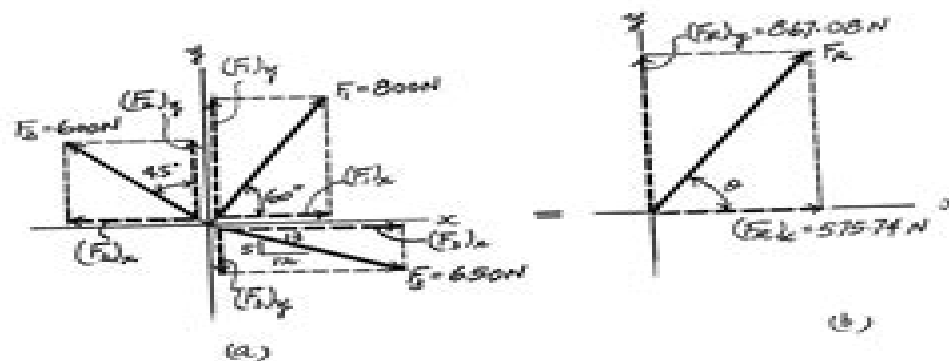
$$+\uparrow \Sigma (F_R)_y = \Sigma F_{iy} \quad (F_R)_y = -692.82 + 424.26 - 250 = -867.08 \text{ N} \downarrow$$

The magnitude of the resultant force F_R is

$$F_R = \sqrt{(F_R)_x^2 + (F_R)_y^2} = \sqrt{575.74^2 + 867.08^2} = 1041 \text{ N} = 1.04 \text{ kN} \quad \text{Ans.}$$

The direction angle θ of F_R , Fig. *b*, measured counterclockwise from the positive x axis, is

$$\theta = \tan^{-1} \left[\frac{(F_R)_y}{(F_R)_x} \right] = \tan^{-1} \left(\frac{867.08}{575.74} \right) = 56.4^\circ \quad \text{Ans.}$$



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R. C. Hibbeler



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