

Sample Problem 2/3

The 500-N force \mathbf{F} is applied to the vertical pole as shown. (1) Write \mathbf{F} in terms of the unit vectors \mathbf{i} and \mathbf{j} and identify both its vector and scalar components. (2) Determine the scalar components of the force vector \mathbf{F} along the x' - and y' -axes. (3) Determine the scalar components of \mathbf{F} along the x - and y -axes.

Solution. Part (1). From Fig. *a* we may write \mathbf{F} as

$$\begin{aligned}\mathbf{F} &= (F \cos \theta)\mathbf{i} - (F \sin \theta)\mathbf{j} \\ &= (500 \cos 60^\circ)\mathbf{i} - (500 \sin 60^\circ)\mathbf{j} \\ &= (250\mathbf{i} - 433\mathbf{j}) \text{ N}\end{aligned}\quad \text{Ans.}$$

The scalar components are $F_x = 250$ N and $F_y = -433$ N. The vector components are $\mathbf{F}_x = 250\mathbf{i}$ N and $\mathbf{F}_y = -433\mathbf{j}$ N.

Part (2). From Fig. *b* we may write \mathbf{F} as $\mathbf{F} = 500\mathbf{i}'$ N, so that the required scalar components are

$$F_{x'} = 500 \text{ N} \quad F_{y'} = 0 \quad \text{Ans.}$$

Part (3). The components of \mathbf{F} in the x - and y' -directions are nonrectangular and are obtained by completing the parallelogram as shown in Fig. *c*. The magnitudes of the components may be calculated by the law of sines. Thus,

$$\begin{aligned}\frac{|F_x|}{\sin 90^\circ} &= \frac{500}{\sin 30^\circ} & |F_x| &= 1000 \text{ N} \\ \frac{|F_{y'}|}{\sin 60^\circ} &= \frac{500}{\sin 30^\circ} & |F_{y'}| &= 866 \text{ N}\end{aligned}$$

The required scalar components are then

$$F_x = 1000 \text{ N} \quad F_{y'} = -866 \text{ N} \quad \text{Ans.}$$



Helpful Hint

- ① Obtain F_x and $F_{y'}$ graphically and compare your results with the calculated values.

Sample Problem 2/4

Forces \mathbf{F}_1 and \mathbf{F}_2 act on the bracket as shown. Determine the projection F_b of their resultant \mathbf{R} onto the b -axis.

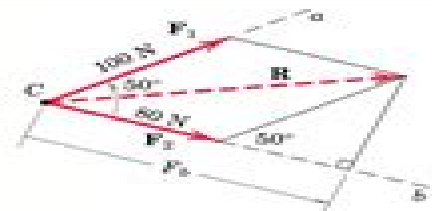
Solution. The parallelogram addition of \mathbf{F}_1 and \mathbf{F}_2 is shown in the figure. Using the law of cosines gives us

$$R^2 = (80)^2 + (100)^2 - 2(80)(100) \cos 120^\circ \quad R = 163.4 \text{ N}$$

The figure also shows the orthogonal projection F_b of \mathbf{R} onto the b -axis. Its length is

$$F_b = 80 + 100 \cos 50^\circ = 144.3 \text{ N} \quad \text{Ans.}$$

Note that the components of a vector are in general not equal to the projections of the vector onto the same axes. If the a -axis had been perpendicular to the b -axis, then the projections and components of \mathbf{R} would have been equal.



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