Sample Problem 2/3

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

Solution. Part (1). From Fig. a we may write F as

$$F = (F \cos \theta)\mathbf{i} - (F \sin \theta)\mathbf{j}$$

= $(500 \cos 60^{\circ})\mathbf{i} - (500 \sin 60^{\circ})\mathbf{j}$
= $(250\mathbf{i} - 433\mathbf{j}) N$

The scalar components are $F_s = 250$ N and $F_y = -433$ N. The vector components are $F_s = 250$ i N and $F_y = -433$ j N.

Part (2). From Fig. b we may write F as F = 500i N, so that the required scalar components are

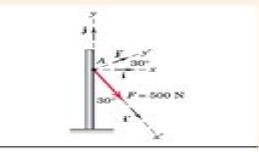
$$F_{y'} = 500 \text{ N}$$
 $F_{y'} = 0$ Ans.

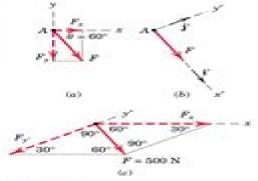
Part (3). The components of F in the x- and y'-directions are nonrectangular and are obtained by completing the parallelogram as shown in Fig. c. The magnitudes of the components may be calculated by the law of sines. Thus,

$$\frac{|F_s|}{\sin 90^\circ} = \frac{500}{\sin 30^\circ}$$
 $|F_s| = 1000 \text{ N}$
 $\frac{|F_r|}{\sin 60^\circ} = \frac{500}{\sin 30^\circ}$ $|F_r| = 866 \text{ N}$

The required scalar components are then

$$F_s = 1000 \text{ N}$$
 $F_{s'} = -866 \text{ N}$ Ans.





Helpful Hint

Ann

① Obtain F_s and F_s graphically and compare your results with the calculated values.

Sample Problem 2/4

OD.

Forces F_1 and F_2 act on the bracket as shown. Determine the projection F_5 of their resultant R onto the δ -axis.

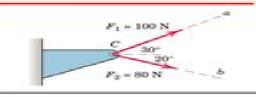
Solution. The parallelogram addition of F_1 and F_2 is shown in the figure. Using the law of cosines gives us

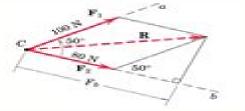
$$R^2 = (80)^2 + (100)^2 - 2(80)(100) \cos 130^\circ$$
 $R = 163.4 \text{ N}$

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

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