

## PROBLEMS

## Introductory Problems

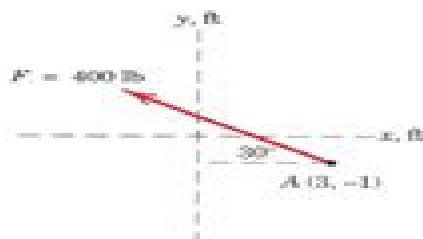
- 2/1** The force  $\mathbf{F}$  has a magnitude of 500 N. Express  $\mathbf{F}$  as a vector in terms of the unit vectors  $\mathbf{i}$  and  $\mathbf{j}$ . Identify the  $x$  and  $y$  scalar components of  $\mathbf{F}$ .

Ans.  $\mathbf{F} = 383\mathbf{i} - 321\mathbf{j}$  N,  $F_x = 383$  N,  $F_y = -321$  N



Problem 2/1

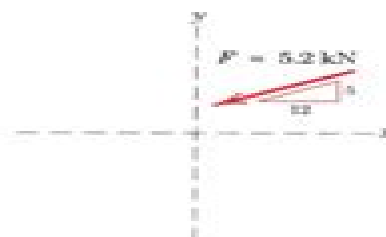
- 2/2** The magnitude of the force  $\mathbf{F}$  is 400 lb. Express  $\mathbf{F}$  as a vector in terms of the unit vectors  $\mathbf{i}$  and  $\mathbf{j}$ . Identify both the scalar and vector components of  $\mathbf{F}$ .



Problem 2/2

- 2/3** The slope of the 5.2-kN force  $\mathbf{F}$  is specified as shown in the figure. Express  $\mathbf{F}$  as a vector in terms of the unit vectors  $\mathbf{i}$  and  $\mathbf{j}$ .

Ans.  $\mathbf{F} = -4.81\mathbf{i} - 2\mathbf{j}$  kN



Problem 2/3

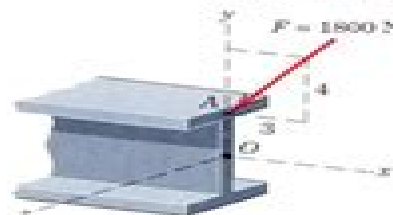
- 2/4** The line of action of the 3000-lb force runs through the points  $A$  and  $B$  as shown in the figure. Determine the  $x$  and  $y$  scalar components of  $\mathbf{F}$ .



Problem 2/4

- 2/5** The 1800-N force  $\mathbf{F}$  is applied to the end of the I-beam. Express  $\mathbf{F}$  as a vector using the unit vectors  $\mathbf{i}$  and  $\mathbf{j}$ .

Ans.  $\mathbf{F} = -1080\mathbf{i} - 1440\mathbf{j}$  N



Problem 2/5

- 2/6** The two structural members, one of which is in tension and the other in compression, exert the indicated forces on joint  $O$ . Determine the magnitude of the resultant  $\mathbf{R}$  of the two forces and the angle  $\theta$  which  $\mathbf{R}$  makes with the positive  $x$ -axis.



Problem 2/6

# Statics 5th Edition Meriam Kraige

**Marcel A. Müller**



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