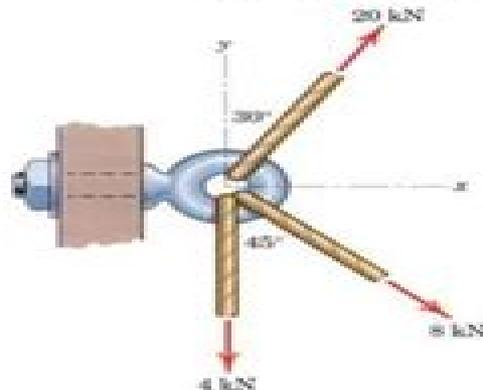


## PROBLEMS

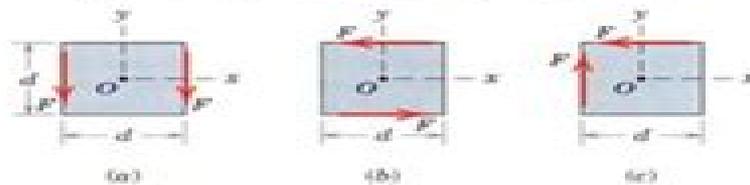
### Introductory Problems

- 2/73** Determine the resultant  $\mathbf{R}$  of the three tension forces acting on the eye bolt. Find the magnitude of  $\mathbf{R}$  and the angle  $\theta_x$  which  $\mathbf{R}$  makes with the positive  $x$ -axis.  
 Ans.  $R = 17.43 \text{ kN}$ ,  $\theta_x = 26.1^\circ$



Problem 2/73

- 2/74** Determine the equivalent force-couple system at the center  $O$  for each of the three cases of forces being applied along the edges of a square plate of side  $d$ .



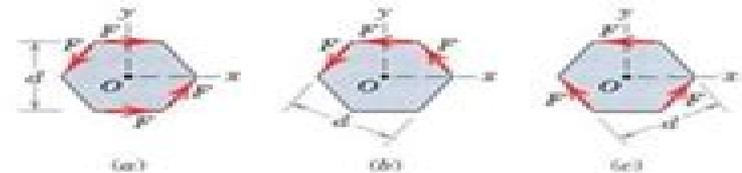
Problem 2/74

- 2/75** Determine the equivalent force-couple system at the origin  $O$  for each of the three cases of forces being applied along the edges of a regular hexagon of width  $d$ . If the resultant can be so expressed, replace this force-couple system with a single force.

Ans. (a)  $\mathbf{R} = 2P\mathbf{i}$  along  $y = -\frac{d}{2}$

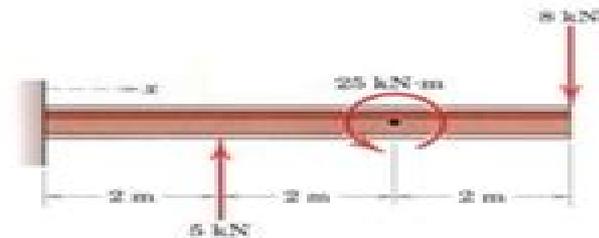
(b)  $\mathbf{R} = -2P\mathbf{j}$  along  $y = \frac{3d}{4}$

(c)  $\mathbf{R} = P(-\mathbf{i} + \sqrt{3}\mathbf{j})$  along  $y = -\sqrt{3}x + \frac{d}{2}$



Problem 2/75

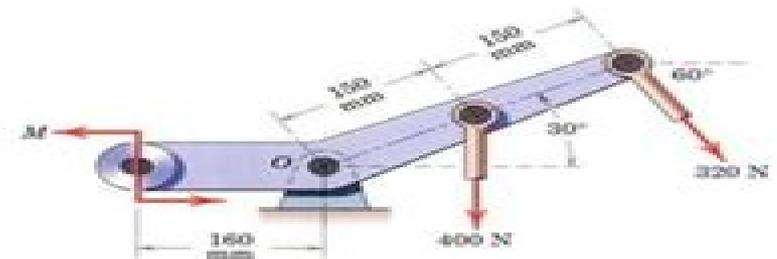
- 2/76** Determine and locate the resultant  $\mathbf{R}$  of the two forces and one couple acting on the I-beam.



Problem 2/76

- 2/77** If the resultant of the two forces and couple  $M$  passes through point  $O$ , determine  $M$ .

Ans.  $M = 148.0 \text{ N}\cdot\text{m}$  CCW



Problem 2/77

# Meriam Engineering Mechanics Statics Virtual Works Solution

**L Towne**



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