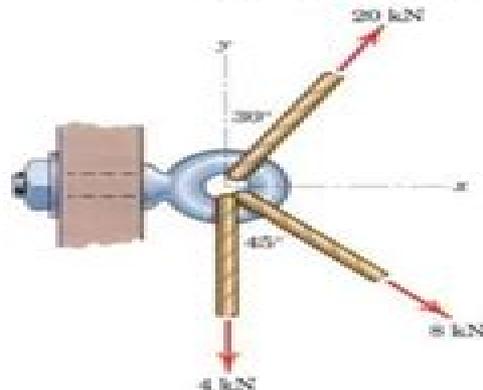


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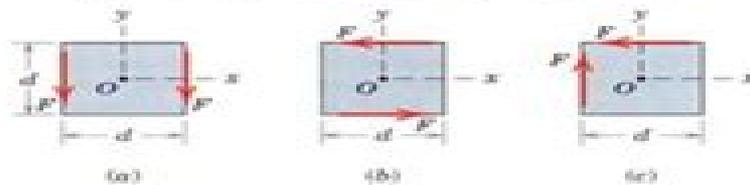
Introductory Problems

- 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 θ_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 .



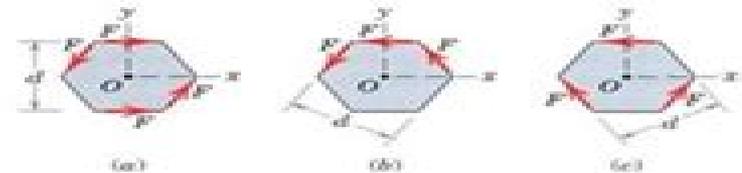
Problem 2/74

- 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 $y = -\frac{d}{2}$

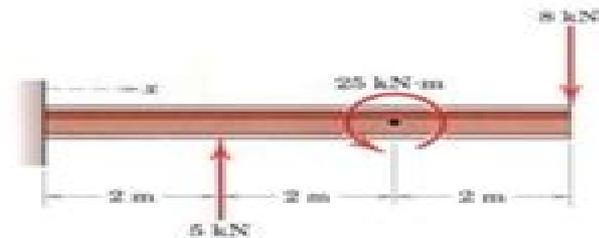
(b) $\mathbf{R} = -2P\mathbf{j}$ along $y = \frac{3d}{4}$

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



Problem 2/75

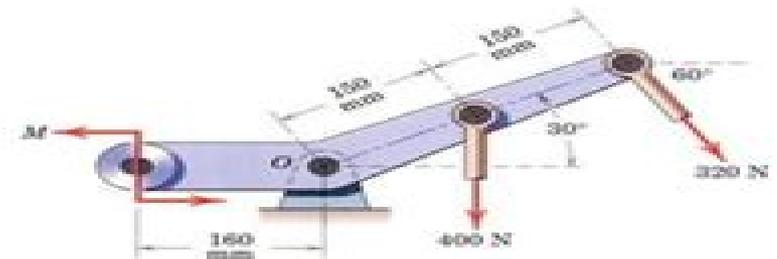
- 2/76** Determine and locate the resultant \mathbf{R} of the two forces and one couple acting on the I-beam.



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

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M Mark



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