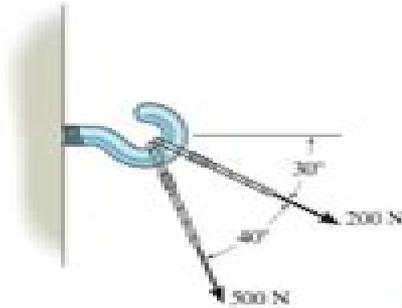
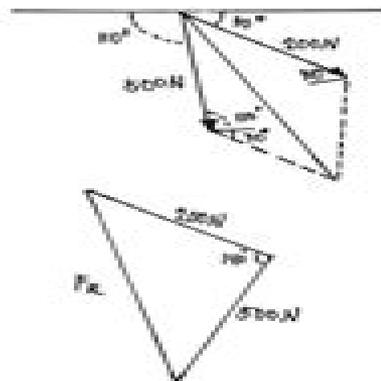


**F2-2.** Two forces act on the hook. Determine the magnitude of the resultant force.



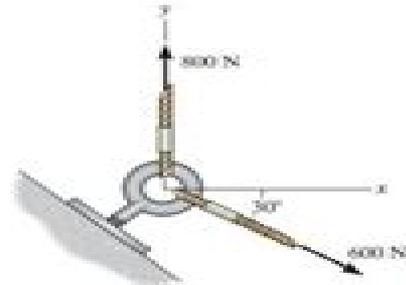
**Prob. F2-2**



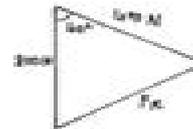
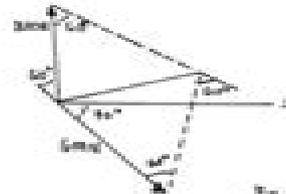
$$F_R = \sqrt{500^2 + 200^2 - (2)(500)(200)(\cos 70^\circ)}$$

$$F_R = 665.7 \text{ N}$$

**F2-3.** Determine the magnitude of the resultant force and its direction measured counterclockwise from the positive x axis.



**Prob. F2-3**



$$F_R = \sqrt{300^2 + 600^2} = (2)(300)(\cos 90^\circ)$$

$$F_R = 721.1 \text{ N}$$

$$\frac{300}{721.1} = \frac{300}{721.1}$$

$$\theta = 26.1^\circ$$

Angle between x-axis

$$\phi = 90^\circ - 26.1^\circ = 63.9^\circ$$

# Engineering Mechanics Solutions

**Davinder K. Anand, Patrick F. Cunniff**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the authors' names.

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