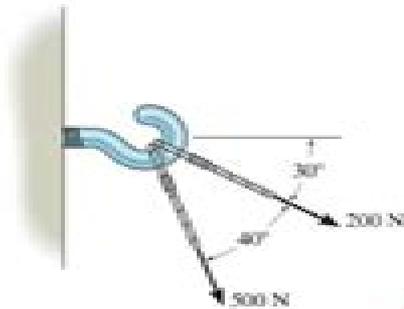
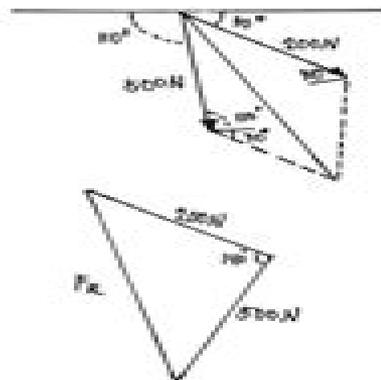


**F2-2.** Two forces act on the hook. Determine the magnitude of the resultant force.



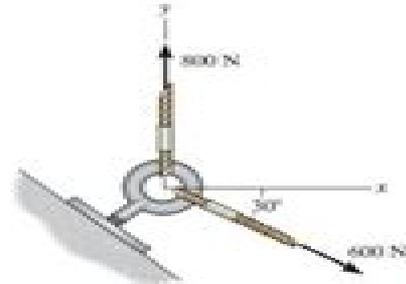
**Prob. F2-2**



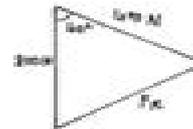
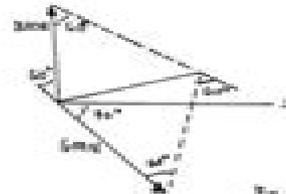
$$F_R = \sqrt{500^2 + 200^2 - (2)(500)(200)(\cos 70^\circ)}$$

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

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



**Prob. F2-3**



$$F_R = \sqrt{600^2 + 200^2} = (2)(600)(200)(\cos 90^\circ)$$

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

$$\frac{200}{721.1} = \frac{200}{721.1}$$

$$\theta = 46.1^\circ$$

Angle between  $x$ -axis &

$$\phi = 90^\circ - 46.1^\circ = 43.9^\circ$$

# Engineering Mechanics Problems And Solutions

**Mark Steyvers**



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