

2-2.

If $\theta = 30^\circ$ and $F = 450 \text{ N}$, determine the magnitude of the resultant force and its direction, measured counter-clockwise from the positive x axis.

SOLUTION

The parallelogram law of addition and the triangle rule are shown in Figs. a and b, respectively.

Applying the law of cosines to Fig. b,

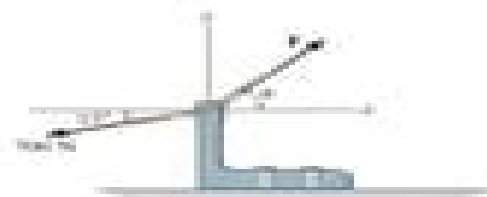
$$\begin{aligned} F_R &= \sqrt{700^2 + 450^2 - 2(700)(450)\cos 45^\circ} \\ &= 497.05 \text{ N} \approx \mathbf{497 \text{ N}} \end{aligned} \quad \text{Ans.}$$

This yields

$$\frac{\sin \alpha}{700} = \frac{\sin 45^\circ}{497.05} \quad \alpha = 55.19^\circ$$

Thus, the direction of angle ϕ of F_R measured counter-clockwise from the positive x axis, is

$$\phi = \alpha + 30^\circ = 55.19^\circ + 30^\circ = \mathbf{85.2^\circ} \quad \text{Ans.}$$



Statics Ch 7 Solution Manual

Raffaella Di Napoli



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