

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,

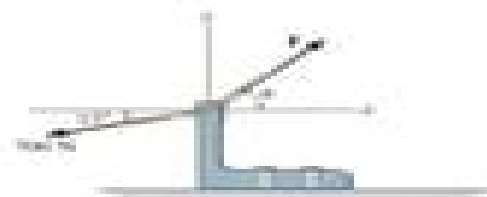
$$\begin{aligned} F_R &= \sqrt{700^2 + 450^2 - 2(700)(450)\cos 45^\circ} \\ &= 497.05 \text{ N} \approx \mathbf{497 \text{ N}} \end{aligned} \quad \text{Ans.}$$

This yields

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

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

$$\phi = \alpha + 30^\circ = 55.19^\circ + 30^\circ = \mathbf{1.55^\circ} \quad \text{Ans.}$$



# Statics Ch 7 Solution Manual

**Venkatachari Rajagopalan:**



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