

2-3.

If the magnitude of the resultant force is to be 500 N, directed along the positive  $y$  axis, determine the magnitude of force  $F$  and its direction  $\theta$ .

### SOLUTION

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

Applying the law of cosines to Fig.  $b$ ,

$$\begin{aligned} F &= \sqrt{500^2 + 700^2 - 2(500)(700) \cos 105^\circ} \\ &= 959.78 \text{ N} \approx 960 \text{ N} \end{aligned}$$

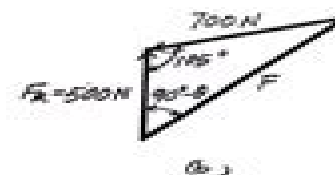
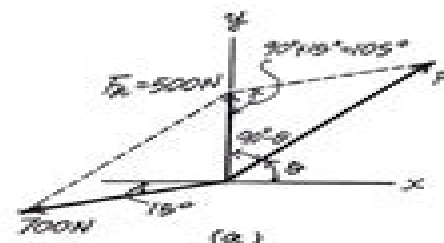
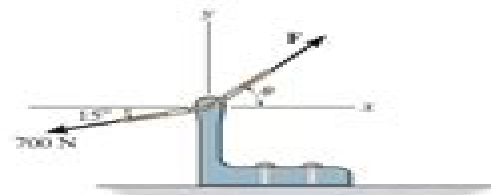
Ans.

Applying the law of sines to Fig.  $b$ , and using this result, yields

$$\frac{\sin (90^\circ + \theta)}{700} = \frac{\sin 105^\circ}{959.78}$$

$$\theta = 45.2^\circ$$

Ans.



# Statics And Mechanics Of Materials 4th Hibbeler Solutions Manual

**R. C. Hibbeler**



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