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\*2–4. Determine the magnitude of the resultant force acting on the bracket and its direction measured counterclockwise from the positive  $x$  axis.



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*,

$$F_R = \sqrt{200^2 + 150^2 - 2(200)(150)\cos 75^\circ} \\ = 216.72 \text{ lb} = 217 \text{ lb}$$

Ans.

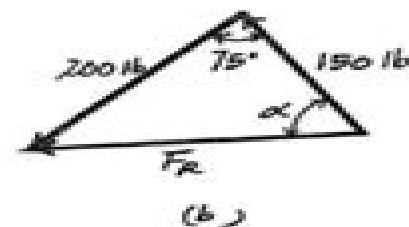
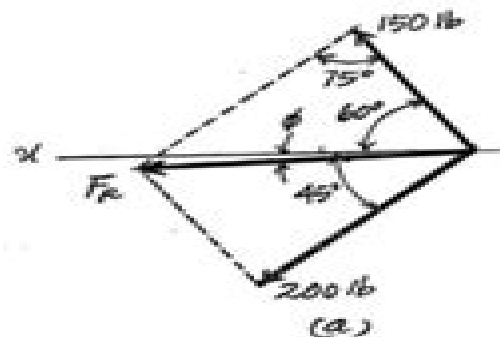
Applying the law of sines to Fig. *b* and using this result yields

$$\frac{\sin \alpha}{200} = \frac{\sin 75^\circ}{216.72} \quad \alpha = 63.05^\circ$$

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

$$\phi = \alpha - 60^\circ = 63.05^\circ - 60^\circ = 3.05^\circ$$

Ans.



# **Solution Manual Applied Mechanics Static 12 Edition**

**Ying-Ying Zheng**



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