

SOLUTION

Parallelogram Law. The parallelogram is formed by drawing a line from the head of \mathbf{F}_1 that is parallel to \mathbf{F}_2 , and another line from the head of \mathbf{F}_2 that is parallel to \mathbf{F}_1 . The resultant force \mathbf{F}_R extends to where these lines intersect at point A , Fig. 2-11*b*. The two unknowns are the magnitude of \mathbf{F}_R and the angle θ (theta).

Trigonometry. From the parallelogram, the vector triangle is constructed, Fig. 2-11*c*. Using the law of cosines

$$\begin{aligned} F_R &= \sqrt{(100 \text{ N})^2 + (150 \text{ N})^2 - 2(100 \text{ N})(150 \text{ N}) \cos 115^\circ} \\ &= \sqrt{10\,000 + 22\,500 - 30\,000(-0.4226)} = 212.6 \text{ N} \\ &= 213 \text{ N} \end{aligned}$$

Ans.

Applying the law of sines to determine θ ,

$$\begin{aligned} \frac{150 \text{ N}}{\sin \theta} &= \frac{212.6 \text{ N}}{\sin 115^\circ} & \sin \theta &= \frac{150 \text{ N}}{212.6 \text{ N}} (\sin 115^\circ) \\ & & \theta &= 39.8^\circ \end{aligned}$$

Thus, the direction ϕ (phi) of \mathbf{F}_R , measured from the horizontal, is

$$\phi = 39.8^\circ + 15.0^\circ = 54.8^\circ \quad \text{Ans.}$$

NOTE: The results seem reasonable, since Fig. 2-11*b* shows \mathbf{F}_R to have a magnitude larger than its components and a direction that is between them.

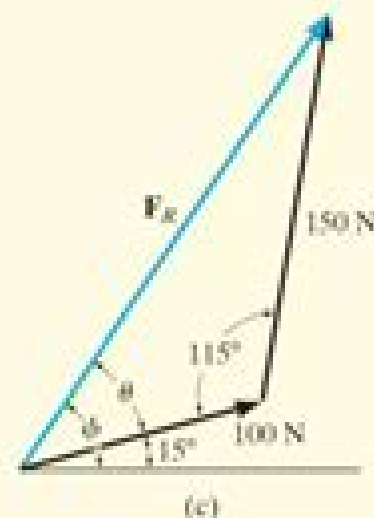


Fig. 2-11

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