

2-29.

If $F_B = 3 \text{ kN}$ and $\theta = 45^\circ$, determine the magnitude of the resultant force of the two tugboats and its direction measured clockwise from the positive x axis.

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*,

$$\begin{aligned} F_R &= \sqrt{2^2 + 3^2 - 2(2)(3) \cos 105^\circ} \\ &= 4.013 \text{ kN} = \mathbf{4.01 \text{ kN}} \end{aligned}$$

Ans.

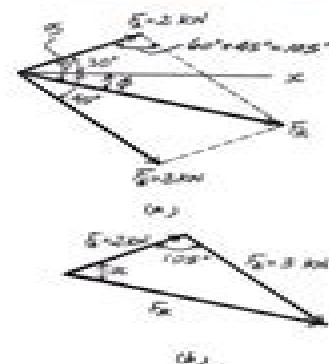
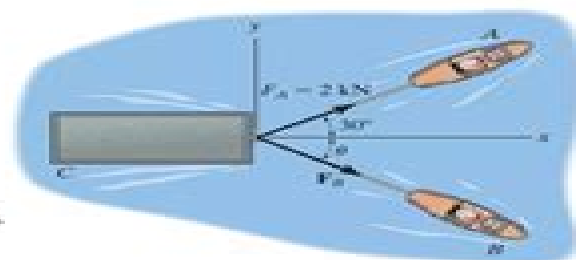
Using this result and applying the law of sines to Fig. *b* yields

$$\frac{\sin \alpha}{3} = \frac{\sin 105^\circ}{4.013} \quad \alpha = 46.22^\circ$$

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

$$\phi = \alpha - 30^\circ = 46.22^\circ - 30^\circ = \mathbf{16.2^\circ}$$

Ans.



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Russell C. Hibbeler



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